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Worksheet 1

Advanced Math
Worksheet—Vertex Form to Standard Form

Name _____
Date _____ Hour _____

We have been working with quadratic equations in Vertex Form, $y = a(x - h)^2 + k$. However, it is more common for quadratic equations to be given to us in Standard Form, $y = ax^2 + bx + c$. Today's assignment is for you to practice using FOIL to change equations from Vertex Form into Standard Form. Use the example below to guide your work.

Example:

$y = -2(x + 3)^2 - 5$ Given.
$y = -2(x^2 + 6x + 9) - 5$ Multiply the quantity squared. (FOIL)
$y = -2x^2 - 12x - 18 - 5$ Distribute the a.
$y = -2x^2 - 12x - 23$ Combine like terms.

Problems:

1. $y = 6(x - 4)^2 - 1$	2. $y = \frac{3}{4}(x + 4)^2 + 6$	3. $y = -5(x - 1)^2 + 4$
4. $y = -\frac{3}{4}(x + 6)^2 - 1$	5. $y = 4(x + 2)^2 - 8$	6. $y = -\frac{2}{3}(x - 9)^2 - 2$
7. $y = (x - 2)^2 + 7$	8. $y = (x + \frac{1}{2})^2 - 2$	9. $y = 18(x - \frac{1}{3})^2 + 5$
10. $y = -2(x + \frac{1}{2})^2$	11. $y = 13(x - 2)^2 + 15$	12. $y = 2(x + 8)^2 + 10$

Worksheet 2 (KEY)

Name: KEY
Date

Solve the Equations for y

1) $-3x + y = -6$
$+3x \quad +3x$
$y = 3x - 6$

6) $-2x - y = 4$
$+2x \quad +2x$
$-y = 2x + 4$
$y = -2x - 4$

2) $3x - 2y = 6$
$-3x \quad -3x$
$-2y = -3x + 6$
$y = \frac{3}{2}x - 3$

7) $12 + y = 4x$
$-12 \quad -12$
$y = 4x - 12$

3) $9x + 3y = -12$
$-9x \quad -9x$
$3y = -9x - 12$
$y = -3x - 4$

8) $\frac{1}{2}x + y = 9$
$-\frac{1}{2}x \quad -\frac{1}{2}x$
$y = -\frac{1}{2}x + 9$

4) $7x + 7y = 49$
$-7x \quad -7x$
$7y = -7x + 49$
$y = -1x + 7$
$y = -x + 7$

9) $2x + 2y + 4 = 0$
$-2x \quad -2x$
$2y + 4 = -2x$
$2y = -2x - 4$
$y = -x - 2$

5) $4x + y = 10$
$-4x \quad -4x$
$y = -4x + 10$

10) $2x + 4y = 0$
$-2x \quad -2x$
$4y = -2x$
$y = -\frac{1}{2}x$

Worksheet 3

Algebra 2 PreFinal (supp)

Name _____ Per ____ Date ____

Calculator Allowed- Show all work (attach if on separate paper)

Simplify

$2x + x^2 + 1x^2 + x \; x^4 = 1$

$4\overline{)103}$ $\frac{25n3}{}$; $n^4 \cdot c^3 = \frac{1}{c}$

$(4x^3 - 12x + 9) + (3x - 11)$
$4x^2 - 9x - 2$

$(6x^2 - 13x + 4) + (8x^2 + 7x + 25)$
$-2x^2 - 6x - 21$

$(x - 3)(2x^3 - 9x^2 + x - 6)$
$2x^4 - 15x^3 + 78x^2 - 9x + 18$

Find the quotient using long division
$\frac{x^2 - 6x + 4}{x + 1}$
$x - 7 + \frac{11}{x+1}$

Find the quotient using synthetic division
$(2v^3 - 20v^2 + 56v - 46) \div (v - 6)$
$2v^2 - 8v + 8 + \frac{2}{v-6}$

Mr Lange likes to keep his room within 3 degrees of 74 degrees. Write an absolute value inequality to show the possible temperatures (t) that will make him happy.
$|x - 74| \le 3$

Given $f(x) = 3x^3 + 5x^2 + 4x + 3$, find $f(3)$
$f(3) = 3(3)^3 + 5(3)^2 + 4(3) + 3$
$81 + 45 + 12 + 3$

Graph: $y > -x^2 + 4x - 3$
Vertex $-\frac{-4}{2(-1)} = 2$
$(2, 1)$

$f(x) = \begin{cases} 4, & x \le -2 \\ x^2, & -2 < x < 2 \\ 4, & x \ge 2 \end{cases}$
Graph
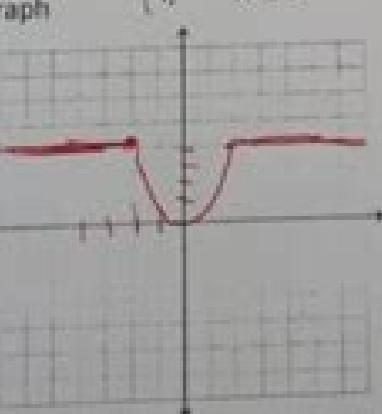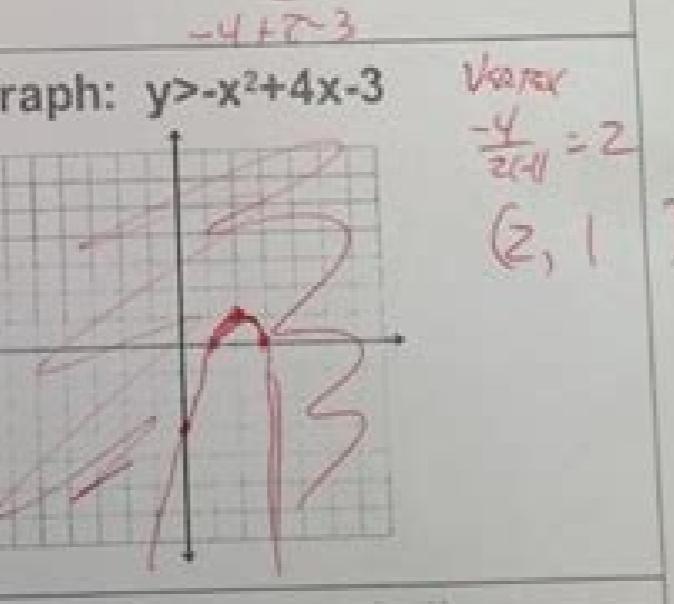
Find the discriminant and state the circle the nature of the solutions
$b^2 - 4ac$
$2x^2 + x + 5 = 0$
$1^2 - 4(2)(5)$
$= 1 - 40$
$= -39$
Two real irrational
Two real rational
One Rational
Two complex

Which of the following could be the graph of a polynomial whose leading term is $-3x^6$?
EVEN
A   B   C   D

8-6 Practice
Slope
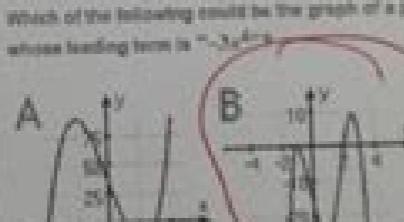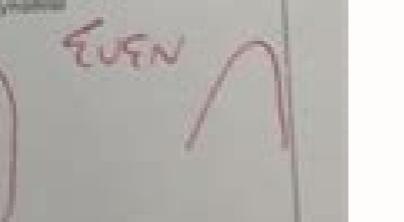
Find the slope of each line.

1.   2.   3.

1. 1
2. 3/4
3. 1/2
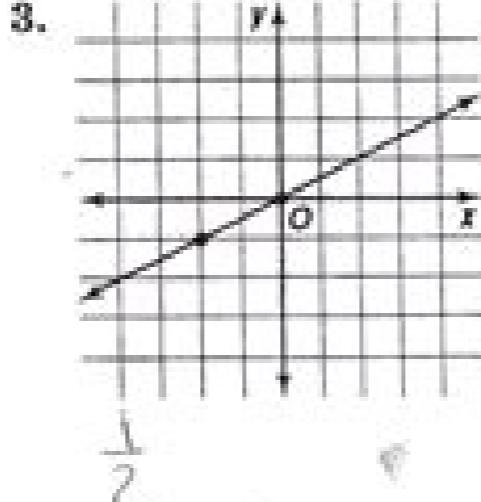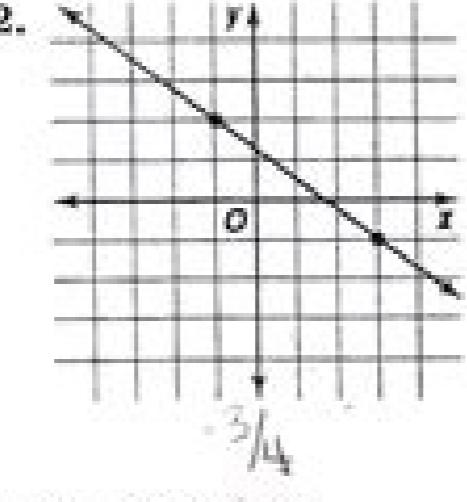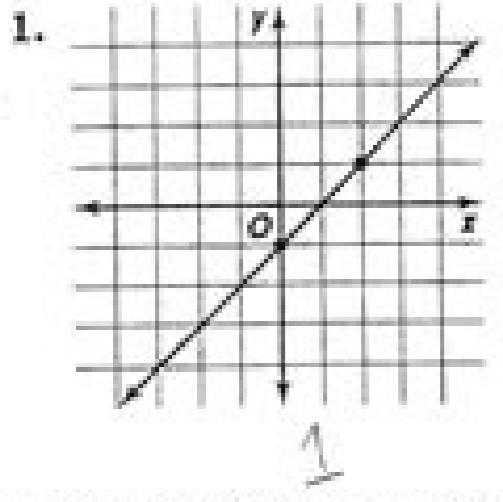
Determine the slope of each line named below.

4) a -3/1
5) b 3/2
6) c 0
7) d -2/5
8) e 3/1
9) f -3/1
10) g 1/5
11) h -4/1
12) i 5/0 und.
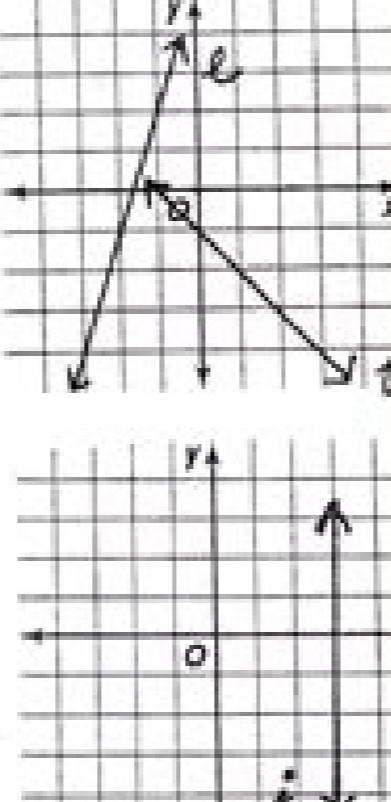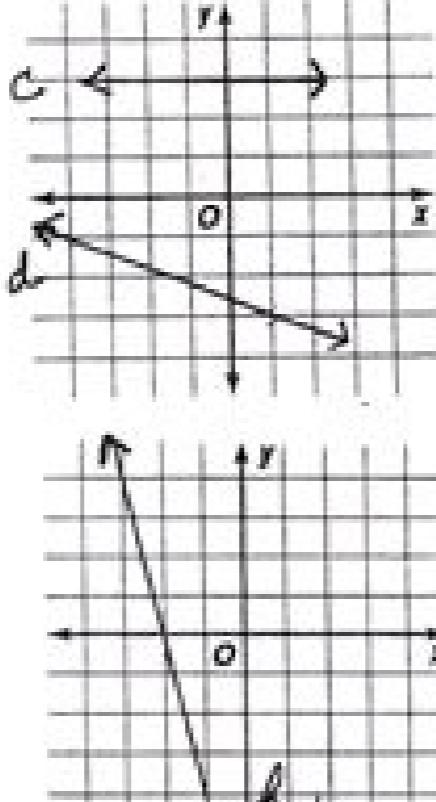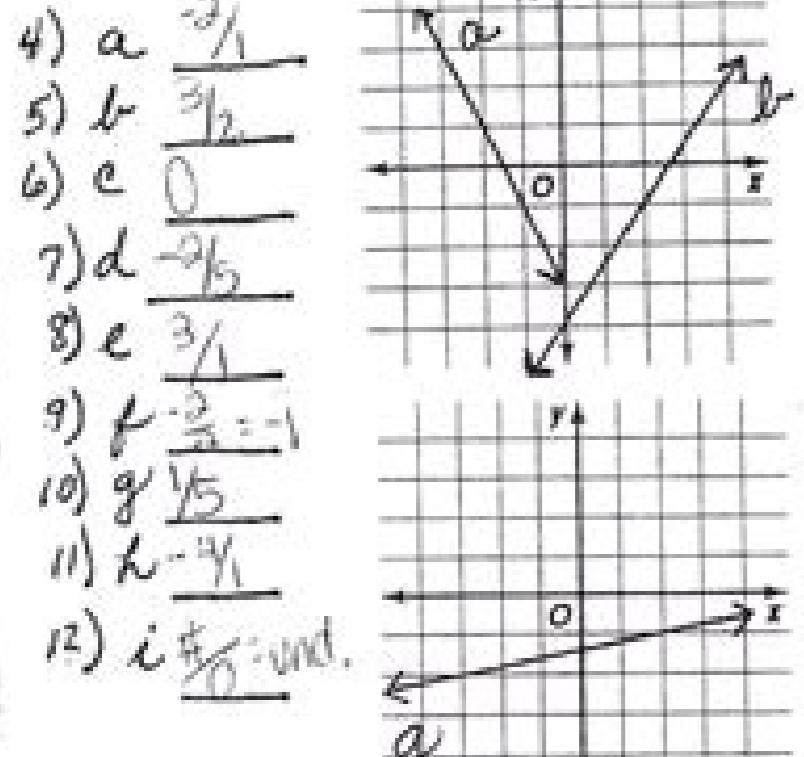
Find the slope of the line that contains each pair of points.

13. $E(2, 1), F(4, 3)$ 1

14. $J(-1, 4), K(-4, 8)$ -4/3

15. $A(3, 4), B(-2, 4)$

16. $M(0, -3), N(4, 6)$ 9/4

17. $P(6, -3), R(8, -2)$ 1/2

18. $K(-3, -2), W(10, 5)$ 7/13

19. $H(2, 3), T(-4, -1)$

$m = \dfrac{3-(-1)}{-2-(-4)} = \dfrac{4}{2} = 2$

20. $Y(\frac{1}{2}, 3), Z(\frac{1}{2}, -2)$

$m = \dfrac{3-(-2)}{\frac{1}{2}-\frac{1}{2}} = \dfrac{5}{0}$ und.

21. $P(0, 1.25), L(0.5, 0)$

$m = \dfrac{1.25-0}{0-.5} = \dfrac{1.25}{-.5} = -2.5$

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A rocket is launched from a platform.

Its height (in meters), x seconds after the launch, is modeled by

$$h(x) = -4(x + 2)(x - 18)$$

What is the height of the rocket at the time of launch?

$x = 0$

$h(0) = -72 \cdot (-18)$

$-8 \cdot -9 \cdot 2$

$= 144$ m

How many seconds after launch will the rocket hit the ground?

$0 = -4(x + 2)(x - 18)$

$x + 2 = 0$ $x - 18 = 0$

$x = -2$ $x = 18$

18 seconds

How many seconds after being launched will the rocket reach its maximum height?

What is the maximum height that the rocket will reach?

Khan Academy

9-1 skills practice graphing quadratic functions answers. 4-1 skills practice graphing quadratic functions answers. 6-1 skills practice graphing quadratic functions answers.

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