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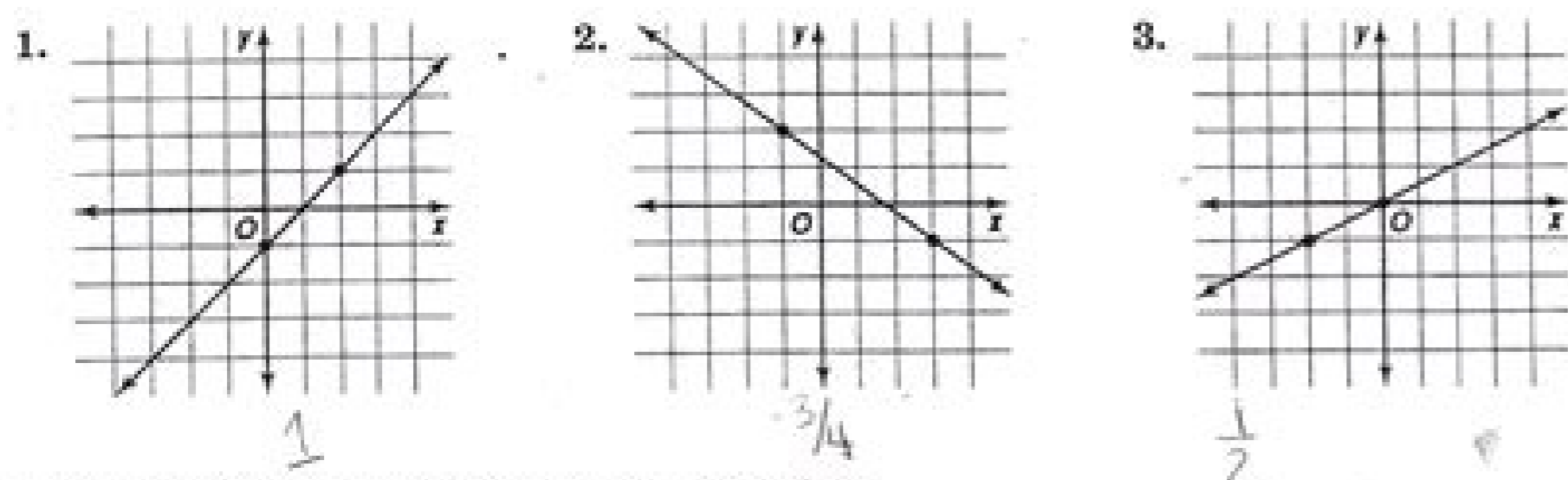
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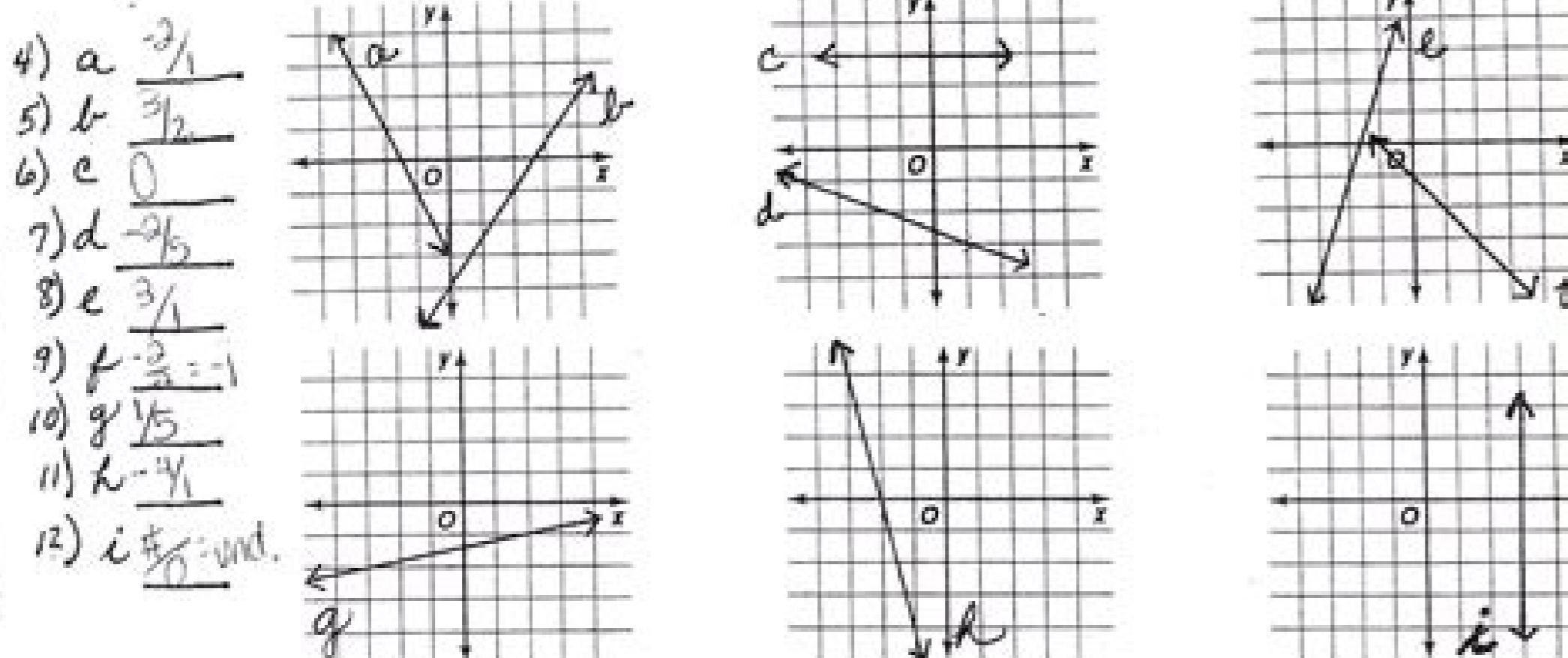
8-6 Practice Slope

Student Edition
Pages 400-404

Find the slope of each line.



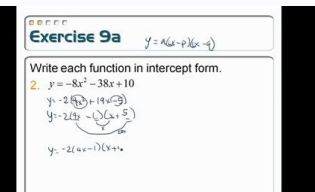
Determine the slope of each line named below.



Find the slope of the line that contains each pair of points.

13. E(2, 1), F(4, 3) $m = 1$
14. J(-1, 4), K(-4, 8) $m = \frac{4}{-3}$
15. A(3, 4), B(-2, 4) $m = 0$
16. M(0, -3), N(4, 6) $m = \frac{9}{4}$
17. P(6, -3), R(8, -2) $m = \frac{1}{2}$
18. K(-3, -2), W(10, 5) $m = \frac{7}{13}$

19. H(-2, 3), T(-4, -1) $m = \frac{3 - (-1)}{-2 - (-4)} = \frac{4}{-2} = -2$
20. Y($\frac{1}{2}$, 3), Z($\frac{1}{2}$, -2) $m = \frac{3 - (-2)}{\frac{1}{2} - \frac{1}{2}} = \frac{5}{0} = \text{und.}$
21. P(0, 1.25), L(0.5, 0) $m = \frac{1.25 - 0}{0 - 0.5} = \frac{1.25}{-0.5} = -2.5$



TRANSFORMATIONS of the quadratic function

$f(x) = ax^2 + bx + c$
vertex (h, k)

TRANSLATIONS		DILATIONS		REFLECTIONS	
Vertical Shift: $y = f(x) + k$	Horizontal Shift: $y = f(x + h)$	Vertical Stretch: $y = a \cdot f(x), a > 1$	X-AXIS: $y = -f(x)$		
SHRINK UP $y = x^2 + 3$ Vertical translation up 3 units	SHRINK LEFT $y = (x-5)^2$ Horizontal translation left 5 units	Vertical stretch by a factor of 2 $y = 2x^2$	Reflection across the x-axis		
SHRINK DOWN $y = x^2 - 6$ Vertical translation down 6 units	SHRINK RIGHT $y = (x+2)^2$ Horizontal translation right 2 units	Vertical Compression: $0 < a < 1$ $y = \frac{1}{2}x^2$ Vertical compression by a factor of 2	Y-AXIS: $y = f(-x)$		
			Reflection across the y-axis $y = (-x)^2$		

Standard Form

$$y = ax^2 + bx + c$$

Step 1: Find the axis of symmetry. This is also the x-value of your vertex. $x = \frac{-b}{2a}$

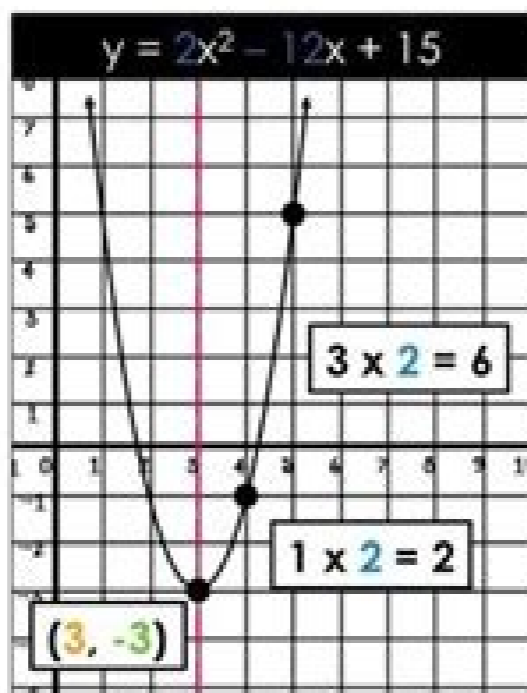
Step 2: Take the x and substitute back into $y = ax^2 + bx + c$ **Vertex: (x, y)**

Step 2: Use the 1, 3, 5... pattern to plot additional points.

Right: 1 Up: $1 \times a$
 Right: 1 Up: $3 \times a$
 Right: 1 Up: $5 \times a$

Step 3: Reflect the points over the **axis of symmetry**.

Step 4: Connect the points to form a u-shaped graph.



Graphing Quadratics

Vertex Form

$$y = a(x - h)^2 + k$$

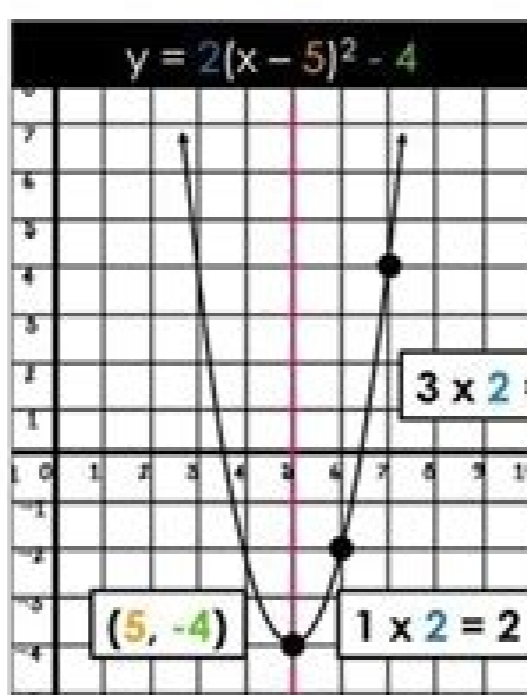
Step 1: Identify the vertex. (h, k)

Step 2: Use the 1, 3, 5... pattern to plot additional points.

Right: 1 Up: $1 \times a$
 Right: 1 Up: $3 \times a$
 Right: 1 Up: $5 \times a$

Step 3: Reflect the points over the **axis of symmetry**.

Step 4: Connect the points to form a u-shaped graph.



Discriminant	Number of roots	Example	Graph
$b^2 - 4ac = 0$	1 real root Touches x axis once	$y = x^2 - 6x + 9$ $b^2 - 4ac = (-6)^2 - 4(1)(9) = 36 - 36 = 0$	
$b^2 - 4ac > 0$	2 real roots Touches x axis twice	$y = x^2 - 2x + 2$ $b^2 - 4ac = (-2)^2 - 4(1)(2) = 4 - 8 = -4$	
$b^2 - 4ac < 0$	No real roots Doesn't touch x axis - no x-intercepts	$y = x^2 - 2x + 2$ $b^2 - 4ac = (-2)^2 - 4(1)(2) = 4 - 8 = -4$	
And one more thing that's interesting: If $b^2 - 4ac =$ a perfect square (0, 1, 4, 9, 25, ...)	1 or 2 real rational ("easy") roots (We'll see later that these quadratics can be factored)	$y = x^2 - x - 6$ $b^2 - 4ac = (-1)^2 - 4(1)(-6) = 1 + 24 = 25$	

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