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0.88 pages

12 questions

Current question sets (3):

3 × Multiplying Polynomials
 8 × Multiplying Polynomials
 1 × Special Products of Polynomials

Math 10 - Part 7

Name _____

Expanding Polynomials - Exam Review

Find each product.

1) $6x(5x - 1)$

$$= 30x^2 - 6x$$

2) $8x(2x - 1)$

3) $2m^5(m - 1)$

4) $(2a - 6)(4a - 3)$

5) $(p - 5)(7p - 1)$

6) $(x + 8)(6x + 1)$

7) $(k + 7)(k - 8)$

8) $(3m + 6)(5m - 3)$

9) $(6n + 4)(n + 8)$

10) $(4n - 6)(6n + 5)$

$$= 24n^2 + 20n - 36n - 30$$

$$= 24n^2 - 16n - 30$$

11) $2(5a + 4)(4a + 2)$

12) $(2n - 8)^2$

Filter Index Order

- Absolute value
- Complex numbers
- Equations, graphing
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- Angles
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- Quadrants
- Reference angles
- Sector area
- Sketching
- Arc length
- Area
- Heron's Formula
- Of triangles using trig.
- Arithmetic mean
- Arithmetic sequences

1.68 pages

8 questions

Current question sets (1):

8 × Solving Quadratic Equations by Factoring

Math 10P Algebraic Expressions

Name _____

Solve Each Equation by Factoring

Date _____

Solve each equation by factoring.

~~1) $x^2 - 48 = 2x$~~

$$0 = x^2 - 2x - 48$$

$$0 = (x + 6)(x - 8)$$

$$x + 6 = 0$$

$$x = -6$$

$$x - 8 = 0$$

$$x = 8$$

$$\text{S.S. } \{-6, 8\}$$

3) $b^2 + 14 = -9b$

2) $n^2 - 4n = -3$

$$\begin{array}{r} \textcircled{\times} -48 \\ \textcircled{+} -2 \\ \hline \end{array}$$

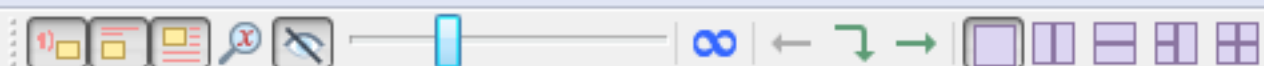
1, 48

2, 24

$$\textcircled{6, -8}$$

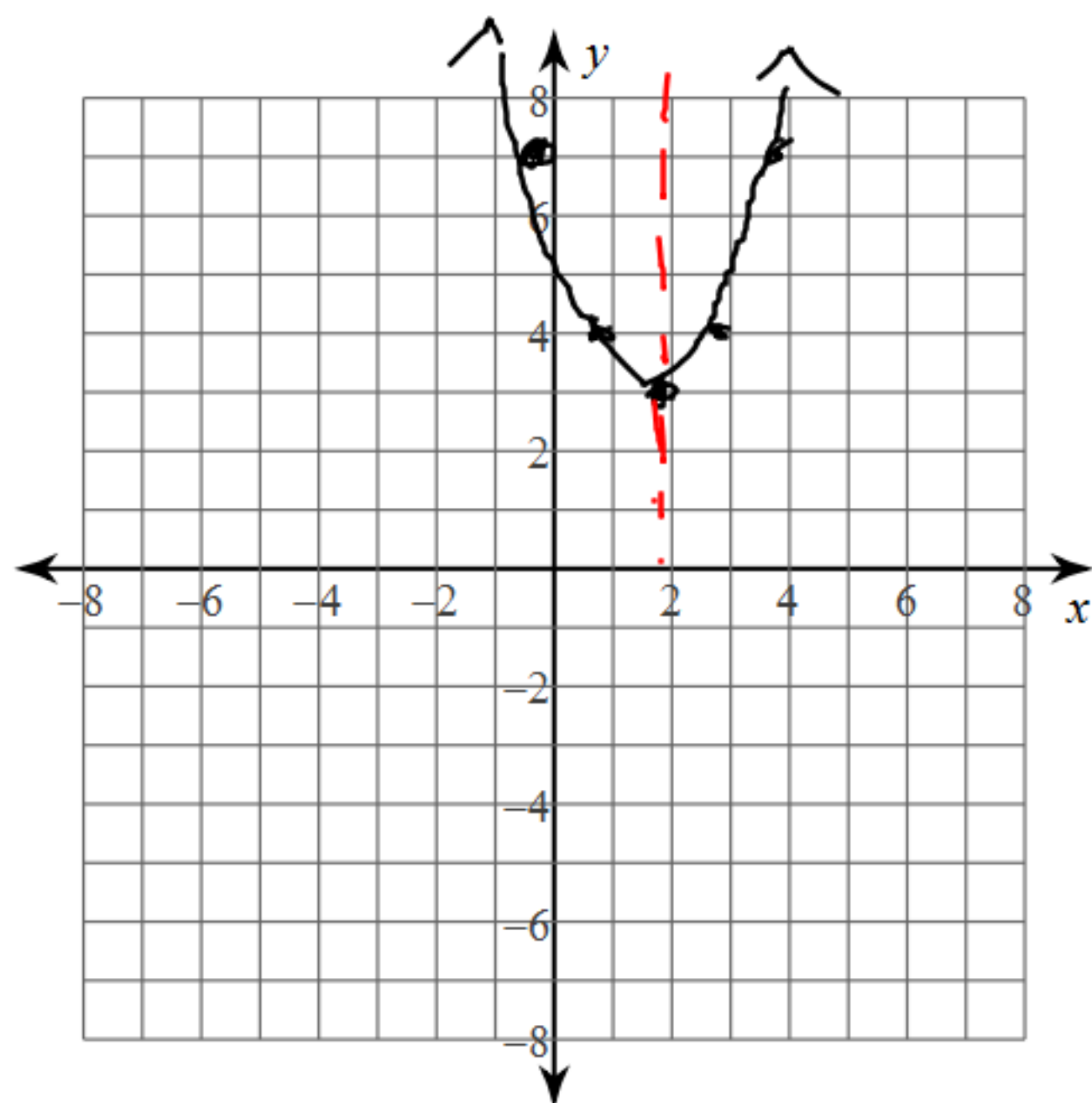
4, 12

4) $2x^2 + 28 = 18x$



Identify the vertex, axis of symmetry, horizontal shift, vertical shift, x intercepts, max/min, and direction of opening of each. Then sketch the graph.

1) $y = (x - 2)^2 + 3$



Vertex: (2, 3)

a.o.s.: $x = 2$

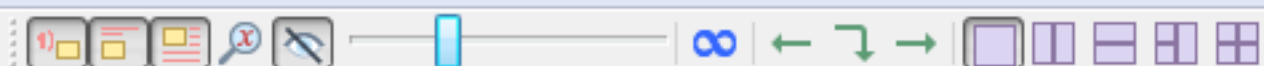
h.s.: 2 right

v.s.: 3 up

x-int: none

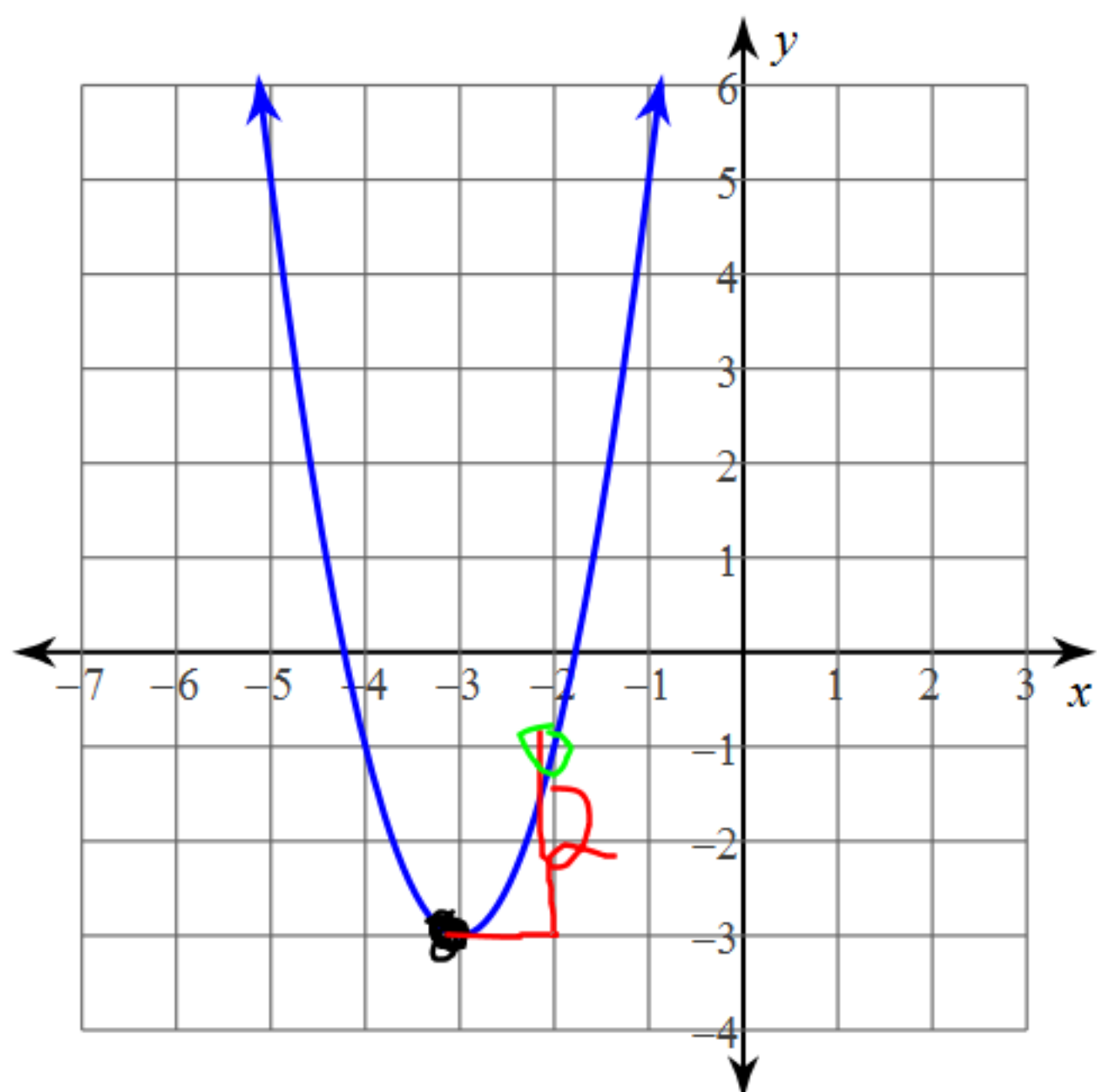
min

opening up



Use the information provided to write the vertex form equation of each parabola. Make sure to state the 'a' value as well. Hint- use the step pattern to determine how many units the parabola goes up or down.

5)



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

changes signs

vertex: $(-3, -3)$

$a = 2$

$$y = 2(x + 3)^2 - 3$$