

Chapter 2

2.1

Q=What exist between the coordinates of the vertex and the equation axis of symmatry?

A= the axis of symmatry is the x-coordinate of the vertex

Q= How many x-intercepts can a parabola have?

A= at the most 2

Simplify Following Expressions

1. $\sqrt{49a^2b^6}$

2. $\sqrt{(x+3)^2}$

3. $\sqrt{(x-10)^2}$

4. $\sqrt{(36x+25)^2}$

5. $\sqrt{(11x-7)^2}$

6. $\sqrt{9m^2(2p^3-q)^2}$

Chapter 2

2.2

Standard form Quadratic equation

Standard form equation of quadratic function is defined as $y = ax^2 + bx + c$, ($a \neq 0$)

1. $y = 5x^2 + 3x + 6$

$a =$

$b =$

$c =$

2. $y = x^2 - 7x + 3$

$a =$

$b =$

$c =$

3. $y = -3x^2 + 4x$

$a =$

$b =$

$c =$

Chapter 2

Find 3 numbers that are between the 2 given numbers

1. $5\frac{3}{4}$ and $6\frac{1}{3}$

2. $-2\frac{1}{4}$ and $-1\frac{1}{2}$

3. $\sqrt{3}$ and $\sqrt{5}$

4. $-9\frac{3}{4}$ and -8.5

5. $\sqrt{1/4}$ and $\sqrt{4/9}$

Area of Rectangle is given in the Form. Find length of 2 sides

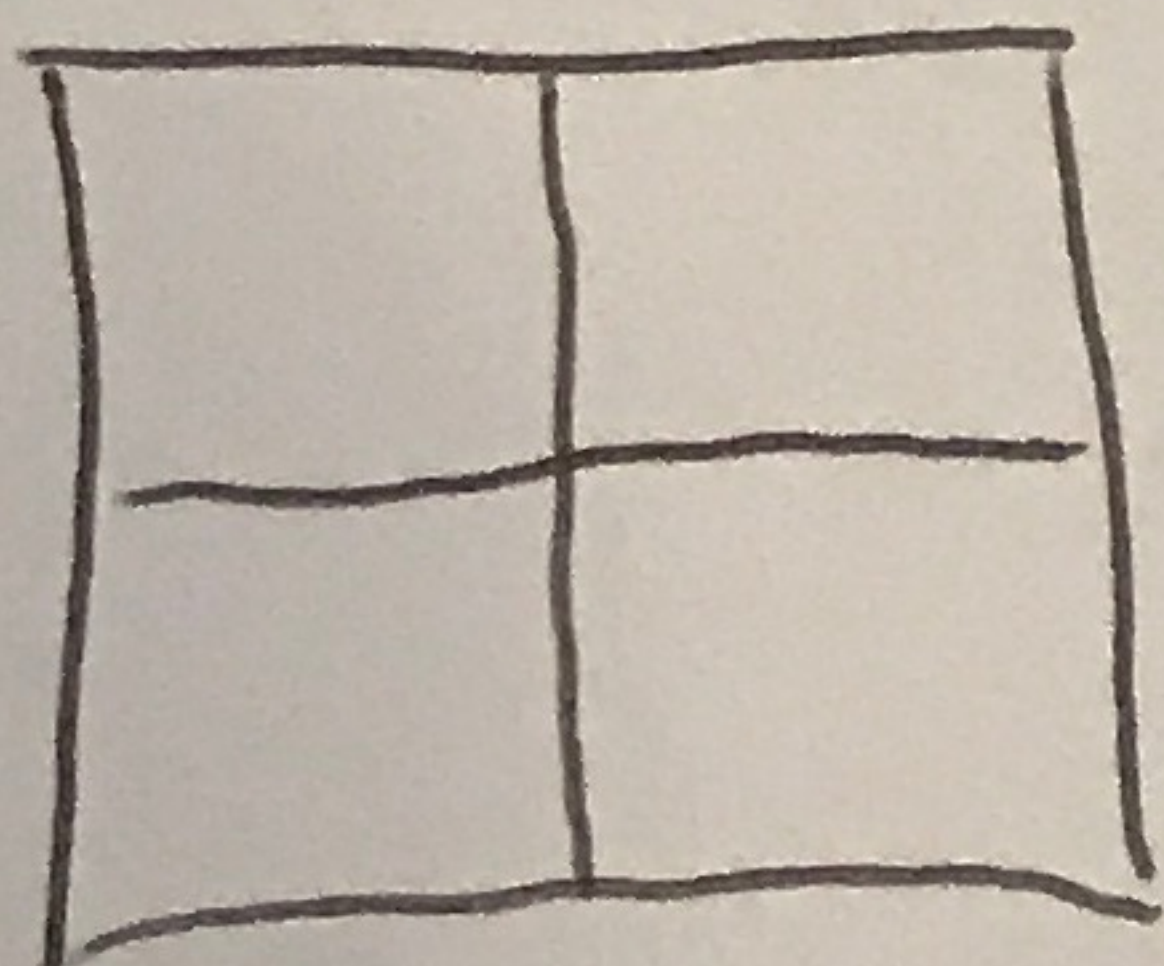
6. $x^2 + 9x + 8$

7. $x^2 - 2x - 8$

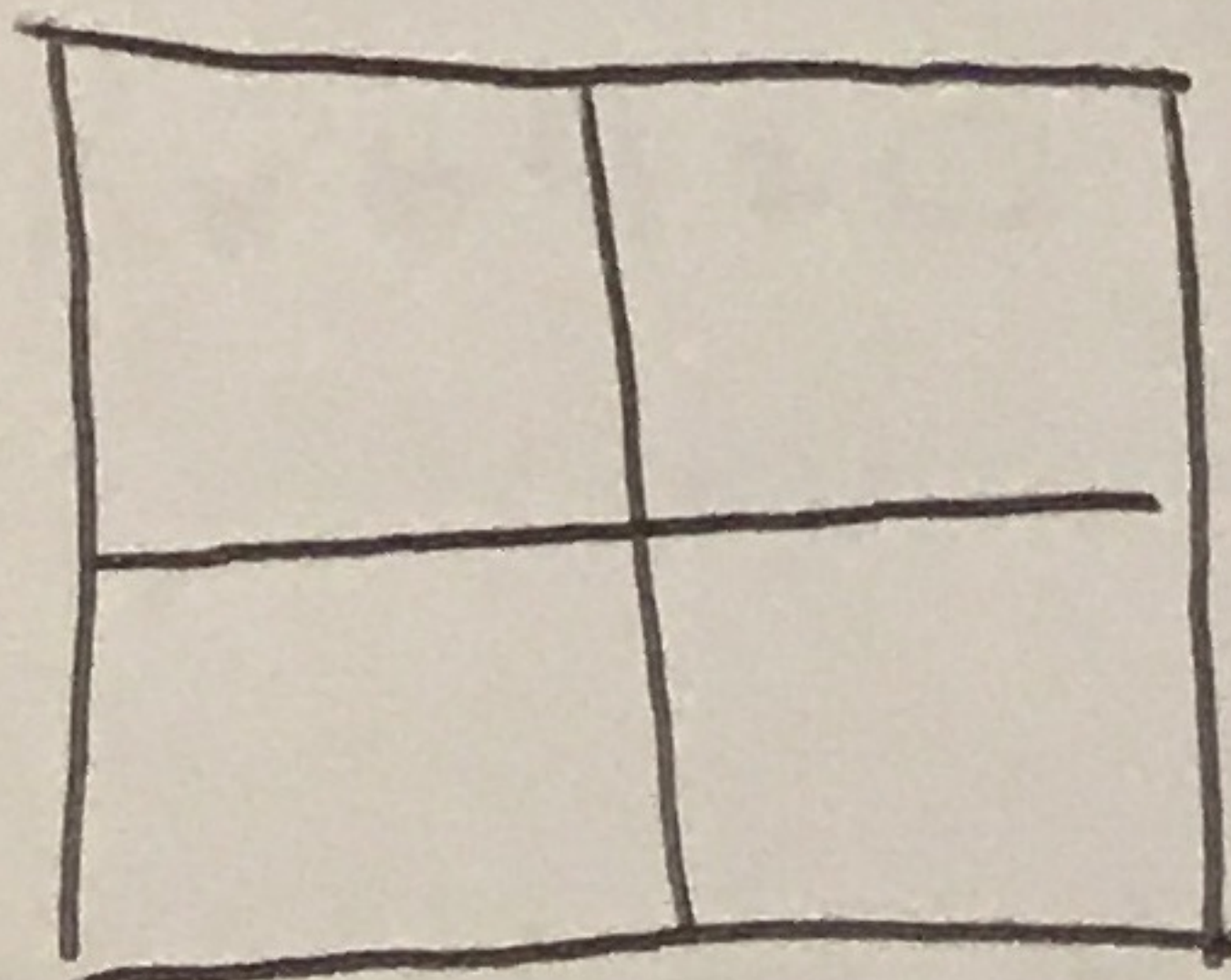
8. $x^2 - 25x + 24$

Multiply these Binomials

$(3x - 4)(7x - 5)$



$(4x + 2)(x + 6)$



Multiply

$(x + 9)(x - 9)$

Chapter 3

Matching

— 1. $x^2 + 8x + 7 = 0$

A. $x = -1, -7$

— 2. $x^2 - 8x + 7 = 0$

B. $x = 41, 7$

— 3. $x^2 + 8x - 7 = 0$

C. $x = -4 \pm \sqrt{23}$

Simplify

4. $3 + \sqrt{8} - \sqrt{2} + 3\sqrt{5} - 4 - 3\sqrt{5}$

5. What method is fastest for solving following equation?
 $(x+3)^2 - 4 = 0$

6. What method is fastest for solving following equation?
 $5x^2 - 2x + 4 = 0$

7. Find the solution to the equation 5 using your favorite method

Solve using any method

8. $5x^2 - 2x = -4$

Chapter 4

put slope in (point slope form)

1. $p: (1, -2); m = -1$

* use

$$m = \frac{y_2 - y_1}{x_2 - x_1}$$

Solve for x (two Answers)

2. $|x| = 7$

3. $-9|m| = -63$

4. $|3x - 5| = 11$

Find x intercepts

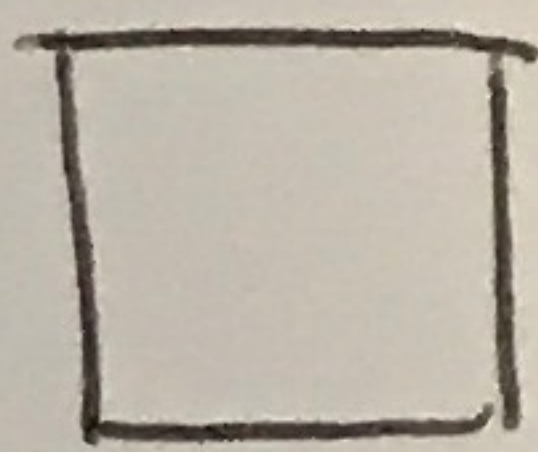
5. $y = x^2 + 3x - 10$

Write in simplest Radical Form

6. $\sqrt{98} + \sqrt{8}$

Area of square is given. Find length of side

7. 16 in^2



Make a sketch matches geometric symbols

1. $\triangle RST$

2. \overrightarrow{AB}

Chapter 5

Find x in each equation

1. $10^x = 100,000$

2. $3x + 7 = 5x - 21$

3. $-6x - 15 = 4x + 35$

4. $5x - 8 = 37$