## 4.RG.2 - Intersepts of Quadratic Functions



Name: $\qquad$

## PARINER A

1A) Use the quadratic formula to find the zeros (rounded to 2 decimal places):

$$
f(x)=-2 x^{2}+8 x+7
$$

2A) Find the zeros and the $y$-intercept.

$$
f(x)=3(x+2)(x+6)
$$

3A) Write the equation of the parabola in intercept form:
$x$-intercepts of $9 \& 1$ and passes through ( $0,-18$ )

4A) Write the quadratic function in intercept/ factored form and find its zeros/x-intercepts:

$$
f(x)=x^{2}+5 x-24
$$

The following problems will be completed with a partner in a Rally Coach format.
Partners take turns: one solving a problem while the other coaches.
Name: $\qquad$

## PAR'INER B

1B) Use the quadratic formula to find the zeros (rounded to 2 decimal places):

$$
f(x)=-3 x^{2}-6 x+5
$$

2B) Find the zeros and the $y$-intercept.

$$
f(x)=-2(x-3)(x+5)
$$

3B) Write the equation of the parabola in intercept form:
$x$-intercepts of $12 \&-6$ and passes through $(14,4)$

4B) Write the quadratic function in intercept/ factored form and find its zeros/x-intercepts:

$$
f(x)=x^{2}+2 x-15
$$

5A) Write the quadratic function in intercept/ factored form and find its zeros/x-intercepts:

$$
f(x)=x^{2}+9 x-22
$$

6A) Use the Square Root Property to find the zeros (rounded to 2 decimal places):

$$
f(x)=-0.5(x-6)^{2}+20
$$

7A) Write the quadratic function in intercept/ factored form and find its zeros/x-intercepts:

$$
f(x)=8 x^{2}+6 x+1
$$

8A) Write the quadratic function in intercept/ factored form and find its zeros/x-intercepts:

$$
f(x)=6 x^{2}+11 x-10
$$

9A) Use the quadratic formula to find the zeros (rounded to 2 decimal places):

$$
f(x)=6 x^{2}-2 x-11
$$

5B) Write the quadratic function in intercept/ factored form and find its zeros/ $x$-intercepts:

$$
f(x)=x^{2}-x+72
$$

6B) Use the Square Root Property to find the zeros (rounded to 2 decimal places):

$$
f(x)=0.2(x+5)^{2}-15
$$

7B) Write the quadratic function in intercept/ factored form and find its zeros/x-intercepts:

$$
f(x)=6 x^{2}-5 x+1
$$

8B) Write the quadratic function in intercept/ factored form and find its zeros/x-intercepts:

$$
f(x)=10 x^{2}-9 x-9
$$

9B) Use the quadratic formula to find the zeros (rounded to 2 decimal places):

$$
f(x)=3 x^{2}+4 x-18
$$

