

6. a. 6 **b.** -2 **c.** 10

8. a. Positive: $x \in]-\infty, -1] \cup [2, \infty[$
Negative: $x \in [-1, 2]$

b. Positive: $x \in [-5, 3]$
Negative: $x \in]-\infty, -5] \cup [3, \infty[$

c. Positive: $x \in]-\infty, 2]$
Negative: $x \in [2, \infty[$

10.

Domain	$[-5, \infty[$
Range	$[-4, +\infty[$
Increasing	$[-5, -4] \cup [1, +\infty[$
Decreasing	$[-4, 1]$
Positive	$[-5, -3] \cup [3, +\infty[$
Negative	$[-3, +3]$
Absolute Max	none
Absolute Min	-4
Relative Max	3
Relative Min	none
Y intercept	-2
Zero(s)	$x = -5, -3, 3$