Name _____

Concept Review (18) 2/5/21

Solve each QUADRATIC using any strategy.

1.) $5x^2 + 19x - 68 = -2$

2.) $y^2 - 9y - 38 = -9$

3.) $7x^2 + 12x + 10 = 0$

4.) $y^2 - 2y = 0$

5.) $x^2 - 48x + 576 = 0$

6.) $8y^2 + 4y - 16 = -y^2$

7.) Tell me everything you can about this quadratic: $y = 2x^2 - 6x - 14$

Axis of symmetry	Value of discriminant
y-intercept	Concave up or down
x-intercept(s)	Vertex

Factor each POLYNOMIAL completely.

9.) $3x^7 - 9x + 27$

10.) $16y^2 - 49$

11.) $x^2 + 3x - 70$

12.) $2y^3 + 12y^2 + 10y + 60$

13.) $3x^2 - 8x + 5$