

Factor each quadratic completely, some may not be factorable.

1. $3x^3 - 5x^2 + 2x$

2. $7x^2 - 32x - 60$

3. $7x^2 + 9x$

4. $x^2 - 7x - 18$

5. $9x^2 - 5x - 10$

6. $16m^2 + 24m + 9$

7. Look back at problem #1, set the factored form equal to zero. What are the possible values of x?

8. Look back at problem #2, set the factored form equal to zero. What are the possible values of x?

9. Consider the quadratic $y = x^2 - 2x - 15$

a. Fill in the table

x	y
-4	
-3	
-1	
0	
1	
3	
5	

b. Sketch the graph

c. Describe the shape, x intercepts, y intercept, line of symmetry and anything else you can about the graph.

