

Pre-Calculus Honors

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Prerequisite Skills for 8.1

Complete the square for each function.

1. $f(x) = x^2 - 12x + 4$

2. $f(x) = x^2 + 8x - 10$

3. $f(x) = -x^2 - 3x +$
use decimals

Complete the square for each expression.

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

5. $-3y^2 + 15y + 7$
use fractions only

6. $ax^2 - bx + c$

Find the slope, the distance and the midpoint for the given points.
Leave all answers in simplified radical form and as reduced fractions.

7. $(-1,3)$ and $(2,5)$

8. $(-3,2)$ and $(-5,-4)$

9. $(a,-3)$ and (b,c)