

1. Solve $x^2 - 6x - 16 = 0$ by three methods:

a. Factoring

b. Completing the Square

c. Quadratic Formula

2. Solve the compound inequalities and absolute value inequalities

a. $-2x + 5 < 4$ and $\frac{2x + 1}{3} > 0$

b. $|6 - x| < 6$

c. $3|x - 2| + 6 \geq 9$