

1. Solve: $1 + \frac{4}{y} = \frac{12}{y^2}$

A: $y = -6$ or $y = 2$

B: $y = -4$ or $y = 4$

C: $y = -2$ or $y = 4$

D: $y = 6$ or $y = -2$

E: $y = 4$ or $y = -2$

2. Factor the following equation: $a^2 - 3a - 40$

A: $(a + 10)(a - 4)$

B: $(a + 15)(a - 2)$

C: $(a + 5)(a - 8)$

D: $(a + 2)(a - 10)$

E: $(a - 5)(a - 8)$

3. Solve the following inequality: $8(5 - 3x) \leq -24$

A: $x \geq -\frac{1}{3}$

B: $x \geq \frac{8}{3}$

C: $x \leq \frac{3}{8}$

D: $x \geq 8$

E: $x \geq 3$