Quiz 33.1

Solve each equation with the quadratic formula.

1) $4n^2 - 11n - 20 = 0$

A) $\{4, -\frac{5}{4}\}$

B) $\{\frac{1}{2}, \frac{1}{3}\}$

C) $\{\frac{5}{4}, -4\}$

D) No solution.

2) $10b^2 + 9b = 12$

A) $\{\frac{15}{4}, -4\}$

B) $\{\frac{-9 + \sqrt{561}}{20}, \frac{-9 - \sqrt{561}}{20}\}$

C) $\{\frac{16}{5}, -5\}$

D) No solution.

Divide.

3) $\frac{4v^3 + 4v^2 + 16v}{8v}$

A) $\frac{v^2}{4} + \frac{v}{2} + \frac{1}{4}$

B) $\frac{5}{4} + \frac{3}{4v} + \frac{1}{v^2}$

C) $\frac{v^2}{2} + \frac{v}{2} + 2$

D) $\frac{v^2}{6} + 4v + 4$

Factor the common factor out of each expression.

4) $7 + 14x + 49x^8$

A) $7(7 + 14x + 49x^8)$

B) $7(7 + 28x + 49x^8)$

C) $7(1 + 2x + 7x^8)$

D) $7(1 + 6x + 7x^8)$