

Names:

Sections 12.1 and 12.2

In problems 1 – 7, solve. Give your answers exactly and then to the nearest hundredth.

1. $2m^2 + 5m = 4$

2. $3m^2 - 2m = 7$

3. $2x^2 - 3x + 2 = 0$

4. $\frac{2}{5}y^2 = \frac{6}{5}y - \frac{3}{5}$

5. $\frac{x^2}{3} - x = \frac{5}{3}$

6. $(7x + 4)^2 = 18$

7. $6x^2 + 13x - 5 = 0$

8. Simplify $\left(\frac{(a^2b^{-3})(a^4b^2)^{-2}}{a^{-4}b^3}\right)^3$.

9. Solve $\begin{cases} 6x - 9y = 12 \\ 15y - 10x = -20 \end{cases}$