

BLM 7-6 Section 7.3 Extra Practice

1. a) $x = -3$ or $x = 1$ b) no solution
c) $x = \pm\frac{5}{2}$ d) $x = 0$
2. a) yes b) no c) yes d) yes
3. a) $x = \frac{1}{4}$ b) no solution c) $x > 5$ d) $n = 8$
4. a) $x = 1 \pm \sqrt{2}$ and $x = 1$
b) $x = 4$ and $x = -1$
c) $x = 2$ and $x = -8$
d) $x = 1 \pm \frac{\sqrt{7}}{2}$, $x = \frac{1}{2}$, and $x = \frac{3}{2}$
5. a) $x = -5$ or $x = 5$
b) $x = \frac{-3}{2}$, $x = -1$, $x = \frac{-1}{2}$, and $x = 3$
c) $x = 2$ and $x = 6.25$ d) $x = 1 \pm 2\sqrt{2}$ and $x = 1$
6. a) yes b) no c) yes d) no
7. a) not possible b) $k = 0$, $k > 4$
c) $k = 4$ d) $0 < k < 4$
8. Mark's solution is incorrect. $0 = (x + 4)(x - 3)$;
 $x = -4$ or $x = 3$