Solving Equations by Factoring

Solve each equation by factoring.

1. 3r2 – 16r – 7 = 5
2. 7x2 + 2x = 0
3. 10b2 = 27b – 18
4. 15a2 – 3a = 3 – 7a
5. x2 = 9
6. 3k2 + 72 = 33k
7. k2 = -4k – 4
8. x2 – 10x + 16 = -5
9. 3m2 = -16m – 21
10. k2 + 15k = -56

Answer Bank:

8 3/2 -7/3 -8 1/3 0 7

6/5 3 -3 3 -2 6 -2/7

-7 3 -3/5 -3 -2/3