

Solve each equation.

1) $-6(2 + 7m) = -5(8 + 8m)$

2) $-6 - 6(8 - 8r) = 8(6r - 8)$

Factor each completely.

3) $n^2 - 6n + 5$

4) $25x^3 - 215x^2 - 90x$

5) $14n^3 + 10n^2$

6) $8n^3 + 58n^2 + 60n$

7) $6x^2 - 37x + 6$

8) $12n^2 + 50n + 28$

9) $4k^3 + 32k^2 - k - 8$

10) $7a^3 - 35a^2 + 2a - 10$

Solve each equation by factoring.

11) $4n^2 - 35 = 13n$

12) $49x^2 - 14x = 24$

13) $2x^2 = 35 - 9x$

14) $2m^2 = -9m + 5$

Solve each equation with the quadratic formula.

15) $8m^2 - 13 = 0$

16) $8x^2 - 11 = 7x$

17) $2p^2 + 2p = -2$

18) $n^2 = -5$