

Factoring #1

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Factor the common factor out of each expression.

1) $70m^4 + 10m - 50$

2) $15x^3 - 10x$

3) $90p^4 - 100p^5 + 60p^6$

4) $-10x + 2x^3$

Factor each completely.

5) $14p^3 - 35p^2 + 2p - 5$

6) $24m^3 - 21m^2 + 64m - 56$

7) $7x^3 - 8x^2 + 14x - 16$

8) $6n^3 - 48n^2 - n + 8$

9) $p^2 + 13p + 36$

10) $n^2 - 8n - 20$

$$11) x^2 + 14x + 48$$

$$12) x^2 - 16x + 63$$

Solve each equation by factoring.

$$13) x^2 - 5x - 6 = 0$$

$$14) m^2 - 7m - 8 = 0$$

$$15) n^2 - n - 42 = 0$$

$$16) p^2 - p - 6 = 0$$

$$17) n^2 + 30 = 11n$$

$$18) x^2 - 16 = 5 - 4x$$

$$19) v^2 + 4v - 20 = 5v$$

$$20) a^2 - 13a + 6 = -6a$$