

Factor by Grouping

1) $x^2 + 3x + 2x + 6$

2) $x^2 + 5x + 4x + 20$

3) $15x^3 + 5x^2 + 3x + 1$

4) $20n^3 + 12n^2 + 25n + 15$

5) $20xy + 12x + 15y + 9$

6) $6aw - 36ak + 6b^2w - 36b^2k$

7) $15xy + 6x^2 - 5ny - 2nx$

8) $12xy + 20xa - 84ay - 140a^2$

9) If t is an unknown constant, which binomial must be a factor of $7m^2 + 14m - tm - 2t$?

A $7m + t$

B $m - t$

C $m + 2$

D $m - 2$

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