

What Do You Call a Sore on a Police Officer's Foot?

Factor completely each polynomial below. Find your answer and notice the letter next to it. Write this letter in the box containing the number of that exercise.

① $3x^2 - 15x + 18$

② $x^3 + 11x^2 + 10x$

③ $8x^3 - 18x$

④ $5x^3 - 40x^2 + 60x$

⑤ $4x^2 + 8x - 60$

⑥ $2x^3 - 20x^2 - 48x$

Answers:

① $5x(x + 3)(x - 4)$

② $2x(2x + 3)(2x - 3)$

③ $2x(x + 6)(x - 4)$

④ $3(x - 2)(x - 3)$

⑤ $4(x + 5)(x - 3)$

⑥ $x(x + 5)(x + 3)$

⑦ $4(x + 5)(x - 1)$

⑧ $x(x + 10)(x + 1)$

⑨ $2x(x - 12)(x + 2)$

⑩ $5x(x - 2)(x - 6)$

⑪ $2x(4x + 9)(x + 1)$

⑦ $4m^2 - 18m + 14$

⑧ $15m^3 + 24m^2 + 9m$

⑨ $15m^2 - 10m - 25$

⑩ $50m^3 - 2m$

⑪ $3m^2 - 10m + 8$

⑫ $60m^3 + 54m^2 - 6m$

Answers:

⑦ $3m(5m + 3)(m + 1)$

⑧ $5(3m + 1)(m - 5)$

⑨ $(3m - 4)(m - 2)$

⑩ $2(2m + 1)(m + 7)$

⑪ $5(3m - 5)(m + 1)$

⑫ $6m(5m - 1)(2m - 1)$

⑬ $3m(5m + 2)(m - 1)$

⑭ $2(2m - 7)(m - 1)$

⑮ $2m(5m + 1)(5m - 1)$

⑯ $6m(10m - 1)(m + 1)$

⑰ $(3m - 2)(m + 4)$

5

8

11

7

1

3

9

6

2

12

4

10