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Factor each polynomial.

1) 12h4 + 8h2 -6h 2) 10g3 - 5g 3) 21c2 + 14c

4) 2a3 - 8a2 + 3a - 12 5) 6f3 - 8f2 + 20 - 15f 6) b3 - 2b - 8 + 4b2

Find the missing part of each factorization

7) 16v + 12v2 = 4v(4 + \_\_\_) 8) -x - 10 = -1(\_\_\_ + 10)

9) \_\_\_ - 24k2 = -8k2(2k + 3) 10) \_\_x3 + 2x + 21x2 + 6 = (x+3)(7x2 + 2)

11) The area of a rectangle is represented by the polynomial x2 + 3x - 6x - 18. Which of the following could represent the length and width of the rectangle?

1. Length: x + 3; Width: x + 6
2. Length: x - 3; Width: x - 6
3. Length: x + 3; Width: x - 6
4. Length: x - 3; Width: x + 6