Simplifying Expressions

Simplify each expression using the Commutative property and Associative property

1) (6a - 4b) + 2a
  = 6a + 2a - 4b
    = 8a - 4b

2) 15 * 2d * 4
  = (15 * 4) * 2d
    = 60 * 2d
      = 120d

3) (6b + 2c) + (2b - c)
  = (6b + 2b) + (2c - c)
    = 8b + c

4) 6m + (2n - 4m)
  = (6m - 4m) +2n
    = 2m + 2n

5) (2x - 7y) + (10y - x)
  = (2x - x) + (-7y +10y)
    = x + 3y

6) 4q - 7r - 5q
  = 4q - 5q - 7r
    = -q -7r

7) (10s * 5) * 2
  = 10s *(5 * 2)
    =10s *10
      =100s

8) 3 * 9t * 7
  = 3 * 7 * 9t
    =21 * 9t
    =189t

9) 4z + 8a -6z +7a
  = 4z -6z + 8a +7a
    = -2z + 15a

8) (20s * 5) * 2
  = 20s *(5 * 2)
    =20s *10
      =200s

9) 15m + (7n - 8m)
  = (15m - 8m) +7n
    = 7m + 7n

10) (5x - 6y) + (10y - 3x)
  = (5x - 3x) + (-6y +10y)
    = 2x + 4y

11) (9b + 4c) + (4b - 2c)
  = (9b + 4b) + (4c - 2c)
    = 13b + 2c

12) 16q - 14r - 10q
  = 16q - 10q - 14r
    = 6q -14r

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