# 9.9 Practice - Simultaneous Product

**Solve.**

1)  $xy = 72$
    $(x+2)(y-4) = 128$

2)  $xy = 180$
    $(x-1)(y-\frac{1}{2}) = 205$

3)  $xy = 150$
    $(x-6)(y+1) = 64$

4)  $xy = 120$
    $(x+2)(y-3) = 120$

5)  $xy = 45$
    $(x+2)(y+1) = 70$

6)  $xy = 65$
    $(x-8)(y+2) = 35$

7)  $xy = 90$
    $(x-5)(y+1) = 120$
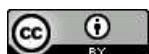
8)  $xy = 48$
    $(x-6)(y+3) = 60$

9)  $xy = 12$
    $(x+1)(y-4) = 16$

10) $xy = 60$
    $(x+5)(y+3) = 150$

11) $xy = 45$
    $(x-5)(y+3) = 160$

12) $xy = 80$
    $(x-5)(y+5) = 45$

## Answers - Simultaneous Product

1) $(2, 36), (-18, -4)$

2) $(-9, -20), (-40, -\frac{9}{2})$

3) $(10, 15), (-90, -\frac{5}{3})$

4) $(8, 15), (-10, -12)$

5) $(5, 9), (18, 2.5)$

6) $(13, 5), (-20, -\frac{13}{4})$

7) $(45, 2), (-10, -9)$

8) $(16, 3), (-6, -8)$

9) $(1, 12), (-3, -4)$

10) $(20, 3), (5, 12)$

11) $(45, 1), (-\frac{5}{3}, -27)$

12) $(8, 10), (-10, -8)$