Corrigé de l'exercice 1

$$A = (-8\,x + 3) \times (8\,x + 17)$$

$$B = (6\,x - 3)^2$$

$$C = (3\,x + 1) \times (10\,x + 11)$$

$$D = (x + 7) \times (x - 7)$$

$$E = (-10\,x + 10) \times (-x + 12)$$

$$F = (5\,x - 4) \times (x - 3)$$

Corrigé de l'exercice 2

$$A = (5\,x - 2)^2$$

$$B = (5\,x - 1) \times (15\,x - 8)$$

$$C = (4\,x + 8) \times (-4\,x + 8)$$

$$D = (16\,x - 10) \times 10$$

$$E = (x - 9) \times (4\,x + 1)$$

$$F = (2\,x + 9) \times (6\,x + 2)$$

Corrigé de l'exercice 3

$$A = (7\,x + 7) \times (-4\,x - 1)$$

$$B = (4\,x - 10)^2$$

$$C = (x + 1) \times (x - 13)$$

$$D = (7\,x + 3) \times (-7\,x + 3)$$

$$E = (5\,x + 10) \times (7\,x + 6)$$

$$F = (7\,x + 1) \times (10\,x + 7)$$

Corrigé de l'exercice 4

$$A = (2\,x + 5) \times (2\,x - 5)$$

$$B = (3\,x + 9) \times (-2\,x - 14)$$

$$C = (4\,x - 3)^2$$

$$D = (2\,x + 16) \times (-2\,x)$$

$$E = (6\,x - 6) \times (7\,x - 9)$$

$$F = (10\,x - 5) \times (8\,x - 3)$$

Corrigé de l'exercice 5

$$A = (-8\,x + 8) \times (-8\,x - 6)$$

$$B = (-6\,x - 2) \times (4\,x + 3)$$

$$C = (9\,x + 5)^2$$

$$D = (6\,x + 9) \times (-6\,x + 9)$$

$$E = (10\,x + 4) \times (-6\,x + 5)$$

$$F = (-2\,x - 3) \times (5\,x + 6)$$

Corrigé de l'exercice 6

$$A = (6\,x + 10) \times (10\,x - 10)$$

$$B = (-2\,x - 7) \times (-14\,x + 1)$$

$$C = (2\,x + 5) \times (-2\,x + 5)$$

$$D = (8\,x + 3)^2$$

$$E = (10\,x + 3) \times (12\,x - 7)$$

$$F = (6\,x + 3) \times (5\,x + 4)$$

Corrigé de l'exercice 7

$$A = (7\,x + 5) \times (7\,x - 5)$$

$$B = (5\,x - 5) \times (5\,x + 9)$$

$$C = (3\,x + 7)^2$$

$$D = (9\,x + 4) \times (-3\,x + 4)$$

$$E = (-2\,x + 8) \times (-12\,x + 17)$$

$$F = (5\,x - 1) \times (-x - 5)$$

Corrigé de l'exercice 8

$$A = (-6\,x + 5) \times 13\,x$$

$$B = (3\,x + 5) \times (-3\,x + 5)$$

$$C = (10\,x + 6) \times (2\,x + 6)$$

$$D = (5\,x + 10)^2$$

$$E = (2\,x + 7) \times (6\,x - 9)$$

$$F = (-2\,x + 7) \times (x - 14)$$

Corrigé de l'exercice 9

$$A = (5\,x + 3) \times (5\,x - 3)$$

$$B = (14\,x - 4) \times (6\,x + 4)$$

$$C = (x - 10) \times (-2\,x - 1)$$

$$D = (3\,x - 6)^2$$

$$E = (5\,x + 1) \times (15\,x + 8)$$

$$F = (4\,x + 8) \times (-x + 8)$$

Corrigé de l'exercice 10

$A = (6\,x + 5) \times (6\,x - 5)$

$B = (10\,x + 8)^2$

$C = (8\,x + 7) \times 8\,x$

$D = (-2\,x + 7) \times (16\,x - 7)$

$E = (8\,x - 4) \times (3\,x + 10)$

$F = (-8\,x + 4) \times 14\,x$

Corrigé de l'exercice 11

$A = (-9\,x - 4) \times (x - 7)$

$B = (10\,x + 4)^2$

$C = (7\,x + 2) \times (7\,x - 2)$

$D = (8\,x - 3) \times (8\,x - 17)$

$E = (4\,x + 8) \times (10\,x + 3)$

$F = (-6\,x - 3) \times (-8\,x + 2)$

Corrigé de l'exercice 12

$A = (10\,x + 4) \times (10\,x - 2)$

$B = (-2\,x + 8) \times 0$

$C = (2\,x + 1)^2$

$D = (2\,x + 8) \times (2\,x - 8)$

$E = (10\,x + 9) \times (4\,x + 8)$

$F = (-x + 7) \times (-9\,x - 3)$

Corrigé de l'exercice 13

$A = (x + 3) \times (19\,x + 17)$

$B = (2\,x - 4)^2$

$C = (x + 9) \times (x - 9)$

$D = (4\,x - 5) \times (-4\,x + 11)$

$E = (5\,x + 1) \times (-3\,x - 1)$

$F = (6\,x - 8) \times (4\,x + 6)$

Corrigé de l'exercice 14

$A = -5\,x \times (5\,x + 8)$

$B = (-8\,x - 3) \times (-6)$

$$C = (3\,x + 7) \times (-3\,x + 7)$$

$$D = (3\,x - 8)^2$$

$$E = (3\,x + 5) \times (7\,x + 7)$$

$$F = (4\,x + 8) \times (-3\,x - 2)$$

Corrigé de l'exercice 15

$$A = (2\,x + 8)^2$$

$$B = (-4\,x + 3) \times (8\,x + 9)$$

$$C = (5\,x + 5) \times (5\,x - 5)$$

$$D = (-4\,x + 5) \times (-8\,x + 5)$$

$$E = (-7\,x - 6) \times (-5\,x - 9)$$

$$F = (4\,x - 6) \times (4\,x + 10)$$

Corrigé de l'exercice 16

$$A = (2\,x + 5)^2$$

$$B = (x + 3) \times (-x + 3)$$

$$C = (8\,x + 9) \times (8\,x + 5)$$

$$D = (3\,x + 4) \times (2\,x + 7)$$

$$E = (7\,x + 6) \times (9\,x + 9)$$

$$F = (4\,x + 2) \times (8\,x + 5)$$

Corrigé de l'exercice 17

$$A = (2\,x + 10) \times (5\,x + 5)$$

$$B = (7\,x + 2) \times (7\,x - 2)$$

$$C = (-4\,x + 8) \times (-4\,x - 4)$$

$$D = (x + 1)^2$$

$$E = (10\,x - 3) \times (-8\,x - 5)$$

$$F = (3\,x + 6) \times (11\,x + 13)$$

Corrigé de l'exercice 18

$$A = (x + 8) \times (x - 8)$$

$$B = (3\,x - 4)^2$$

$$C = (-5\,x - 5) \times (5\,x + 11)$$

$$D = (2\,x + 8) \times (12\,x + 14)$$

$$E = (7\,x + 9) \times (8\,x + 8)$$

$$F = (-7\,x + 6) \times (-17\,x + 2)$$

Corrigé de l'exercice 19

$$A = (5\,x + 5) \times (-5\,x + 13)$$

$$B = (10\,x + 4)^2$$

$$C = (2\,x + 4) \times (15\,x + 4)$$

$$D = (10\,x + 9) \times (-10\,x + 9)$$

$$E = (10\,x + 5) \times (12\,x + 8)$$

$$F = (x + 2) \times (8\,x + 7)$$

Corrigé de l'exercice 20

$$A = (-5\,x + 3) \times (-8\,x - 2)$$

$$B = (4\,x + 7) \times (-4\,x + 7)$$

$$C = (5\,x + 9) \times (x + 9)$$

$$D = (10\,x - 10)^2$$

$$E = (4\,x + 10) \times (-5\,x + 17)$$

$$F = (10\,x + 4) \times (8\,x + 2)$$

Corrigé de l'exercice 21

$$A = (-7\,x - 9) \times (-12\,x - 16)$$

$$B = (9\,x + 6) \times (-9\,x + 6)$$

$$C = 4 \times (-12\,x + 4)$$

$$D = (6\,x - 1)^2$$

$$E = (3\,x + 4) \times (3\,x - 9)$$

$$F = (-8\,x - 2) \times (-5\,x + 1)$$

Corrigé de l'exercice 22

$$A = (3\,x + 5) \times (-11\,x - 9)$$

$$B = (-x + 13) \times (x - 5)$$

$$C = (9\,x + 3) \times (9\,x - 3)$$

$$D = (6\,x - 1)^2$$

$$E = (3\,x - 4) \times (-2\,x - 13)$$

$$F = (9\,x + 9) \times (2\,x + 8)$$

Corrigé de l'exercice 23

$$A = (3\,x - 8) \times (-3\,x + 12)$$

$$B = (3\,x + 10) \times (-3\,x + 10)$$

$$C = (x + 5) \times (x + 6)$$

$$D = (9\,x + 2)^2$$

$E = (5\,x - 9) \times (8\,x + 6)$

$F = (-7\,x - 10) \times (-3\,x - 16)$

Corrigé de l'exercice 24

$A = (7\,x + 7) \times (-7\,x + 7)$

$B = (2\,x + 7)^2$

$C = (8\,x - 10) \times (-15\,x - 1)$

$D = (-2\,x + 15) \times (2\,x - 1)$

$E = (-6\,x - 4) \times (3\,x - 12)$

$F = (4\,x + 10) \times (10\,x + 5)$

Corrigé de l'exercice 25

$A = (x - 6) \times (x + 15)$

$B = (8\,x - 10)^2$

$C = (-5\,x + 2) \times (-7\,x + 2)$

$D = (10\,x + 3) \times (-10\,x + 3)$

$E = (7\,x + 4) \times (7\,x + 6)$

$F = (8\,x - 5) \times (17\,x - 15)$

Corrigé de l'exercice 26

$A = (7\,x + 4)^2$

$B = (8\,x + 9) \times (8\,x - 9)$

$C = (-3\,x + 1) \times (-7\,x + 3)$

$D = (3\,x - 1) \times (-3\,x + 3)$

$E = (8\,x + 6) \times (7\,x + 2)$

$F = (7\,x + 8) \times (4\,x - 5)$

Corrigé de l'exercice 27

$A = (7\,x - 1)^2$

$B = (3\,x + 8) \times (3\,x - 8)$

$C = (9\,x - 3) \times (x + 3)$

$D = (3\,x + 2) \times (4\,x - 4)$

$E = (-9\,x + 5) \times (-19\,x + 1)$

$F = (9\,x + 6) \times (7\,x + 11)$

Corrigé de l'exercice 28

$$A = (-5\,x + 8) \times (-4\,x + 4)$$

$$B = (2\,x - 5)^2$$

$$C = (4\,x + 9) \times (4\,x - 9)$$

$$D = (2\,x + 4) \times (-2\,x + 8)$$

$$E = (5\,x - 10) \times (6\,x + 7)$$

$$F = (x - 2) \times (-2\,x + 2)$$

Corrigé de l'exercice 29

$$A = (5\,x + 10) \times (-6\,x - 5)$$

$$B = (3\,x + 5) \times (3\,x - 5)$$

$$C = -7 \times (12\,x + 7)$$

$$D = (8\,x + 5)^2$$

$$E = (x - 4) \times (-5\,x - 14)$$

$$F = (5\,x - 9) \times (6\,x + 8)$$

Corrigé de l'exercice 30

$$A = (10\,x + 8) \times (10\,x - 8)$$

$$B = (-8\,x + 8) \times (-6\,x + 1)$$

$$C = (9\,x - 3)^2$$

$$D = (9\,x + 14) \times (9\,x + 6)$$

$$E = (5\,x + 5) \times (5\,x - 6)$$

$$F = (-6\,x + 10) \times (-16\,x + 3)$$