

## Réponses

①

a)  $S_A = \left\{ -\frac{\sqrt{3}}{3} \right\}$

b)  $S_B = \{2 - 2\sqrt{2} - \sqrt{3} + \sqrt{6}\}$

c)  $S_C = \left\{ \frac{2 - 3\sqrt{2} + 3\sqrt{3} - \sqrt{6}}{7} \right\}$

d)  $S_D = \left\{ \frac{1}{2} + \frac{\sqrt{2}}{4} \right\}$

② 370, 250, 1480

③ 20000

④  $\frac{21}{338} \text{ m}^2$ 

⑤ 12000; 3000

⑥ 64 et 65

⑦  $\frac{13}{4}$ 

⑧

$S_a = \left\{ 0; -\frac{6}{5} \right\}$

$S_b = \left\{ \frac{2}{3} \right\}$

$S_c = \left\{ -\frac{1}{2} \right\}$

$S_d = \{-\sqrt{3}; \sqrt{3}\}$

$S_e = \left\{ \frac{13}{3} \right\}$

$S_f = \{-8; 4\}$

$S_g = \{-2; 2; 7\}$

$S_h = \{2\}$

$S_i = \{-3 - \sqrt{6}; -3 + \sqrt{6}\}$

⑨

a)  $4(x^2 + 1)(x + 1)(x - 1)$

b)  $3(x + 4)(x - 2)$

c)  $x(x + \sqrt{5})(x - \sqrt{5})$

d)  $(a - b)(a - 1)$

e)  $(x - 1)(x + 2)(x - 2)$

f)  $2x(2x - 1)^2$

g)  $(x^2 + 8)(x + \sqrt{8})(x - \sqrt{8})$

h)  $(x + 8)(7x - 10)$

i)  $(4x^2 + 3y)(4x^2 - 3y)$

j)  $(x + y + 2u)(x + y - 2u)$

k)  $(2y - 3)^2$

l)  $x^2 y^2 (4ay - a^2 + 5bx)$

⑩

a)  $S = \{-9\}$

b)  $S = \emptyset$

c)  $S = \left\{ -\frac{55}{17} \right\}$

d)  $S = \left\{ -\frac{19}{28} \right\}$