

1 (1)  $\frac{5}{12}a$

(2)  $2x^2y^2$

(3)  $-\frac{2\sqrt{3}}{3}$

2 (1)  $n = 30$

(2)  $\frac{11}{4}$

(3)  $a = -2, b = -90$

(4)  $48\pi\text{cm}^2$

(5)  $\frac{1}{9}$

3 (1)  $a = 2, b = 1$

(2)  $j$

(3)  $a = 5, b = 2$

4 (1)  $x = 120$

(2)  $x = 80$

(3)  $x = 2\sqrt{7}$

5 (1)  $90^\circ + \angle BAC$

(2) 2組の辺とその間の角がそれぞれ等しい

(3) 4点A, P, B, D が同じ円周上にある

6 (1)  $C(-2, -6)$

(2)  $OE = \frac{1}{2}a^2 + 2a$

(3)  $a = 4$