

Exercise 8 Suppose that $P(x/3) = x^2 + x + 1$. What is the sum of all values of x for which P(3x) = 7?

(A)
$$-\frac{1}{3}$$

(B)
$$-\frac{1}{9}$$

(A)
$$-\frac{1}{3}$$
 (B) $-\frac{1}{9}$ (C) 0 (D) $\frac{5}{9}$ (E) $\frac{5}{3}$

(E)
$$\frac{5}{3}$$

$$sum = -\frac{b}{a}$$

$$= -\frac{b}{a}$$

Exercise 9 For how many values of the coefficient a do the equations

$$0 = x^2 + ax + 1$$
 and $0 = x^2 - x - a$

have a common real solution?

- (A) 0 (B) 1 (C)
 - (C) 2 (D)
 - (D) 3 (E) infinitely many

$$ax+1=x-a$$
 $ax+1=x-a$
 $ax+1=x-a$
 $ax+1=0$
 $ax+1=0$