

$$= \frac{12}{4}$$

$$= 3$$

Solution 12:

$$p(x) = x^3 - ax^2 + 6x - a,$$

$$g(x) = x - a$$

By remainder theorem, when $p(x)$ is divided by $g(x) = x - a$,

Then the remainder = $p(a)$

Putting $x = a$

$$p(a) = a^3 - a \times a^2 + 6 \times a - a$$

$$= a^3 - a^3 + 6a - a$$

$$= 5a$$

$\therefore$ Remainder = $5a$

Solution 13:

Let, $p(x) = 2x^3 + x^2 - ax + 2$ and $q(x) = 2x^3 - 3x^2 - 3x + a$

When $p(x)$ is divided by $(x - 2)$, then the remainder

$$p(2) = 2 \times 2^3 + 2^2 - 2a + 2$$

$$= 16 + 4 - 2a + 2$$

$$= 22 - 2a$$

When $q(x)$ is divided by $(x - 2)$, then the remainder

$$q(2) = 2 \times 2^3 - 3 \times 2 + a$$

$$= 16 - 12 - 6 + a$$

$$= -2 + a$$

Given, $p(x) = q(x)$

$$\Rightarrow 22 - 2a = -2 + a$$

$$\Rightarrow 3a = 24$$

$$\Rightarrow a = \frac{24}{3} = 8$$

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