ACBSE Coaching for Mathematics and Science

8th Algebric expression Solved Test papers

Solution

1.
$$3P^{2} - 49^{2} - 57^{2} - 6$$

 $4P^{2} + 59^{2} - 67^{2} + 7$
 $9 - 99^{2} + r^{2} - 73$
2. $(3a^{2} - 6ab - 3b^{2} - 1) - P = (4a^{2} - 7ab - 4b^{2} + 1)$
 $(3e^{2} - 6ab - 3b^{2} - 1 - 4a^{2}) - P$
 $(3e^{2} - 6ab - 3b^{2} - 1 - 4a^{2}) - P$
 $(3e^{2} - 6ab - 3b^{2} - 1 - 4a^{2}) - P$
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 $(3e^{2} - 6ab - 3b^{2} - 1 - 4a^{2$

$$3(11) x^{2} (x^{2} + 2x - 3) - 5x(x^{2} + 2x - 3) + 8(x^{2} + 2x - 3)$$

$$= x^{4} + 2x^{3} - 3x^{2} - 5x^{3} - 10x^{2} + 15x + 8x^{2} + 16x - 24$$

$$= x^{4} - 3x^{3} - 5x^{2} + 3|x - 24$$

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5.
$$x^{2}-3x+4$$

$$5x^{3}-13x^{2}+15x+7$$

$$5x^{3}-15x^{2}+20x$$

$$-15x^{2}-5x+7$$

$$-2x^{2}-6x+8$$

$$(x-1)$$
Remainder = (x-1), $q = (5x+2)$

6.(1)
$$(x-1)$$
 $x^{2}+x+1$ | Terms of quotent.
 $x^{3}-x^{2}$ | $\frac{x^{3}}{2}=x^{2}-0$ | $\frac{x^{3}}{2}=x^{2}-0$ | $\frac{x^{2}}{2}=x^{2}-0$ | Ouotent = $x^{2}+z+1$

(i)
$$2x+1$$
 Texas of quotients
$$\frac{x^3+2x}{-x^2+1} = x^3 = x^2 - 0$$

$$\frac{-x^2+2}{x^2+2} = -x$$

$$\frac{-x^2+2}{x^2+1} = -x$$

$$\frac{x^3+2x}{x^2+1} = -x$$

$$\frac{-x^2+2}{x^2+1} = -x$$

$$\frac{x^3+2x}{x^2+1} = -x$$

7.
$$0 \frac{(x+1)(x-1)}{(x+1)} \frac{(x^2+1)}{(x+1)}$$

 $= \frac{(x^2-1)^2(x^2+1)}{(x^2+1)^2}$
 $= \frac{(x^2-1)^2(x^2+1)}{(x^2+1)^2}$
 $= \frac{(x^2)^2-(1)^2}{(x^2+1)^2}$

(11)
$$(2p-3)(2p+3)(4p^2+9)$$

= $(4p^2-9)(4p^2+9)$
= $(4p^2)^2-(3)^2$
= $16p^4-81$

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8. Given
$$x + \frac{1}{2} = 4$$
, squaring 60th Educe

$$\frac{1}{3} \frac{(x + \frac{1}{2})^{2}}{(x^{2} + \frac{1}{2})^{2}} = \frac{(4)^{2}}{(4)^{2}} = \frac{16 - 2}{(4)^{2}} = \frac{14}{4} = \frac{16}{4}$$

$$\frac{1}{3} \frac{x^{2} + \frac{1}{2}}{x^{2}} = \frac{16 - 2}{(4)^{2}} = \frac{14}{4} = \frac{14}{4}$$

$$\frac{1}{3} \frac{x^{2} + \frac{1}{2}}{x^{2}} = \frac{16 - 2}{(4)^{2}} = \frac{196}{(4)^{2}}$$

$$\frac{1}{3} \frac{x^{2} + \frac{1}{2}}{x^{2}} = \frac{196}{(4)^{2}}$$

$$\frac{1}{3} \frac{x^{2} + \frac{1}{2}}{x^{2}} = \frac{196 - 2}{(4)^{2}} = \frac{194}{(4)^{2}}$$

$$\frac{1}{3} \frac{x^{2} + \frac{1}{2}}{x^{2}} = \frac{196}{(4)^{2}}$$

$$\frac{1}{3} \frac{x^{2$$