

POLYNOMIAL EQUATIONS - ANSWER KEY

(01). $x = 5$ or $x = -2 + \sqrt{3}$ or $x = -2 - \sqrt{3}$

(02). $p = 2$ or $p = -1 + \sqrt{2}$ or $p = -1 - \sqrt{2}$

(03). $q = (-3)$ or $q = -\frac{1}{2} + \frac{\sqrt{3}}{2}$ or $q = -\frac{1}{2} - \frac{\sqrt{3}}{2}$

(04). $x = 9$ or $x = \frac{5}{6} + \frac{\sqrt{13}}{6}$ or $x = \frac{5}{6} - \frac{\sqrt{13}}{6}$

(05). $p = 1$ or $p = 4$ or $p = \left(-\frac{1}{2}\right)$

(06). $q = 8$ or $q = \frac{1}{4} + \frac{\sqrt{41}}{4}$ or $q = \frac{1}{4} - \frac{\sqrt{41}}{4}$

(07). $m = 2$ or $m = 2 + \sqrt{2}$ or $m = 2 - \sqrt{2}$

(08). $t = 1$ or $t = (-1)$ or $t = 2\frac{1}{3}$

(09). $n = 7$ or $n = 2 + \sqrt{11}$ or $n = 2 - \sqrt{11}$

(10). $q = 5$ or $q = \frac{6}{5} + \frac{\sqrt{41}}{5}$ or $q = \frac{6}{5} - \frac{\sqrt{41}}{5}$

(11). $q = 3\frac{1}{2}$ or $q = \frac{3}{2} + \frac{\sqrt{13}}{2}$ or $q = \frac{3}{2} - \frac{\sqrt{13}}{2}$

(12). $m = \frac{1}{3}$ or $m = \frac{3}{2} + \frac{\sqrt{19}}{2}$ or $m = \frac{3}{2} - \frac{\sqrt{19}}{2}$

(13). $t = 1\frac{2}{5}$ or $t = 1 + \sqrt{7}$ or $t = 1 - \sqrt{7}$

(14). $m = \left(-\frac{2}{11}\right)$ or $m = 1$ or $m = \frac{1}{2}$

(15). $n = 4\frac{1}{3}$ or $n = \frac{9}{8} + \frac{\sqrt{97}}{8}$ or $n = \frac{9}{8} - \frac{\sqrt{97}}{8}$

(16). $u = 5\frac{1}{2}$ or $u = 2$ or $u = 4$