POLYNOMIAL EQUATIONS – ANSWER KEY

(01). $q = 13 \; or \; q = (-13) \; or \; q = -\frac{5}{2} + \frac{\sqrt{13}}{2} \; or \; q = -\frac{5}{2} - \frac{\sqrt{13}}{2}$

(02). $x = 10 \; or \; x = (-10) \; or \; x = -\frac{7}{2} + \frac{3\sqrt{5}}{2} \; or \; x = -\frac{7}{2} - \frac{3\sqrt{5}}{2}$

(03). $y = 9 \; or \; y = (-9) \; or \; y = -2 + \sqrt{3} \; or \; y = -2 - \sqrt{3}$

(04). $p = 5 \; or \; p = (-5) \; or \; p = 1 + \sqrt{2} \; or \; p = 1 - \sqrt{2}$

(05). $x = \frac{3}{2} \; or \; x = \left(-\frac{3}{2}\right) \; or \; x = 2 + 2\sqrt{2} \; or \; x = 2 - 2\sqrt{2}$

(06). $a = \frac{9}{11} \; or \; a = \left(-\frac{9}{11}\right) \; or \; a = -\frac{5}{2} + \frac{\sqrt{61}}{2} \; or \; a = -\frac{5}{2} - \frac{\sqrt{61}}{2}$

(07). $b = \frac{4}{5} \; or \; b = \left(-\frac{4}{5}\right) \; or \; b = -\frac{3}{2} + \frac{\sqrt{13}}{2} \; or \; b = -\frac{3}{2} - \frac{\sqrt{13}}{2}$

(08). $k = \frac{5}{4} \; or \; k = \left(-\frac{5}{4}\right) \; or \; k = -\frac{1}{4} + \frac{\sqrt{17}}{4} \; or \; k = -\frac{1}{4} - \frac{\sqrt{17}}{4}$

(09). $t = 2 \; or \; t = (-2) \; or \; t = (-1) \; or \; t = \left(-\frac{2}{3}\right)$

(10). $a = \frac{4}{5} \; or \; a = \left(-\frac{4}{5}\right) \; or \; a = (-1) \; or \; a = \left(-\frac{1}{2}\right)$

(11). $y = \sqrt{\frac{8}{5}} \; or \; y = -\sqrt{\frac{8}{5}} \; or \; y = (-4) \; or \; y = (-1)$

(12). $x = \sqrt{\frac{3}{2}} \; or \; x = -\sqrt{\frac{3}{2}} \; or \; x = (-1) \; or \; x = \left(-\frac{5}{7}\right)$