



Advanced Math

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$$1) \begin{array}{c|c|c} + & - & i \\ \hline 0 & 1 & 2 \end{array}$$

$$2) \begin{array}{c|c|c} + & - & i \\ \hline 0 & 1 & 0 \end{array}$$

Note:

take out $x^2 = 0$

$$3) \begin{array}{c|c|c} + & - & i \\ \hline 0 & 0 & 4 \end{array}$$

take out $x = 0$

$$4) \begin{array}{c|c|c} + & - & i \\ \hline 2 & 0 & 0 \\ 0 & 0 & 2 \end{array}$$

$$5) \begin{array}{c|c|c} + & - & i \\ \hline 0 & 0 & 4 \end{array}$$

$$6) \begin{array}{c|c|c} + & - & i \\ \hline 2 & 0 & 2 \\ 0 & 0 & 4 \end{array}$$

$$7) \begin{array}{c|c|c} + & - & i \\ \hline 1 & 0 & 2 \end{array}$$

$$8) \begin{array}{c|c|c} + & - & i \\ \hline 3 & 0 & 0 \\ 1 & 0 & 2 \end{array}$$

$$9) \begin{array}{c|c|c} + & - & i \\ \hline 3 & 0 & 0 \\ 1 & 0 & 2 \end{array}$$

$$10) \begin{array}{c|c|c} + & - & i \\ \hline 0 & 3 & 0 \\ 0 & 1 & 2 \end{array}$$

$$14) \{-2, -1, 3\}$$

$$20) \{1, 2, 6\}$$

$$22) \{-2\}$$

$$24) \{3\}$$

$$26) \{3, \frac{1}{3}\}$$

$$28) \{5, 1, -1, \frac{5}{2}\}$$

$$30) \{0, -1, 4, -3\}$$

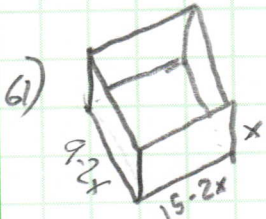
$$32) \{-2, 0, 1\}$$

$$42) \{\pm 2, \pm \sqrt{3}\}$$

$$44) \{\pm 3, \frac{2}{3}, \frac{1}{3}\}$$

$$50) \{-\frac{3}{2}, \frac{1}{3}, \frac{3}{2}\}$$

$$52) \{\frac{2}{3}, \pm i\sqrt{5}\}$$



61)

$$b) V(x) = x(9-2x)(15-2x)$$

$$c) \approx 1.82 \text{ cm}$$

$$d) \text{Domain } (0, 4.5)$$

therefore no 8 allowed
(should be out of window!)

$$62) b) 20 \times 20 \times 40$$

$$c) \text{domain } (0, 30)$$

so -9.27 is not allowed,
(should not be in window)

$$69) x = 38.43558$$

$= \$38,435.58$

$$70) x \approx 31.537878$$

$\$31,537.878$