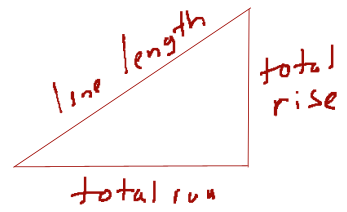


LINE LENGTH

$$c^2 = a^2 + b^2$$
$$\text{Line Length}^2 = \text{rise}^2 + \text{run}^2$$



$$\text{total run} = 25.25''$$
$$\text{total rise} = 8.41''$$

$$1) \quad a^2 + b^2 = c^2$$
$$25.25^2 + 8.41^2 = c^2$$
$$637.56 + 70.73 = c^2$$
$$708.29 = c^2$$
$$\boxed{26.61 = c}$$

$$2) \quad a^2 + b^2 = c^2$$
$$31.25^2 + 10.42^2 = c^2$$
$$976.56 + 108.58 = c^2$$
$$1085.14 = c^2$$
$$\boxed{32.94 = c}$$

$$\text{total run} = 31.25''$$
$$\text{total rise} = 10.42''$$

$$3) \quad a^2 + b^2 = c^2$$
$$37.25^2 + 12.42^2 = c^2$$
$$976.56 + 154.26 = c^2$$
$$1130.82 = c^2$$
$$\boxed{33.63 = c}$$

$$\text{total run} = 37.25''$$
$$\text{total rise} = 12.42''$$

$$4) \quad a^2 + b^2 = c^2$$
$$40.25^2 + 15.42^2 = c^2$$
$$1620.06 + 237.78 = c^2$$
$$1857.84 = c^2$$
$$\boxed{43.1 = c}$$

$$\text{total run} = 40.25''$$
$$\text{total rise} = 15.42''$$