| | Relationship | Initial Values | Initial Equation | Substitution | Constant of proportionality | Final equation | When $x = 10$ | When $y = 10$ |
|---|---|---|---|---|---|---|---|---|
| a | $y$ is inversely proportional to $x$ | When: $x = 8,\ y = 0.75$ | | | | | | |
| b | $y$ is directly proportional to $x^3$ | When: $x = 12,\ y = 13824$ | | | | | | |
| c | $y$ is inversely proportional to $x$ | When: $x = 1,\ y = 0.2$ | | | | | | |
| d | $y$ is directly proportional to $x$ | When: $x = 4,\ y = 8$ | | | | | | |
| e | $y$ is directly proportional to $x^3$ | When: $x = 15,\ y = 5062.5$ | | | | | | |
| f | $y$ is directly proportional to $x^2$ | When: $x = 2,\ y = 8$ | | | | | | |
| g | $y$ is directly proportional to $x^2$ | When: $x = 3,\ y = 14.4$ | | | | | | |
| h | $y$ is directly proportional to $x^2$ | When: $x = 6,\ y = 14.4$ | | | | | | |
| i | $y$ is directly proportional to $x^3$ | When: $x = 4,\ y = 288$ | | | | | | |
| j | $y$ is directly proportional to $x^2$ | When: $x = 4,\ y = 80$ | | | | | | |
| k | $y$ is directly proportional to $x^2$ | When: $x = 1,\ y = 6$ | | | | | | |
| l | $y$ is directly proportional to $x^3$ | When: $x = 3,\ y = 2.7$ | | | | | | |
| m | $y$ is directly proportional to $x^3$ | When: $x = 3,\ y = 2.7$ | | | | | | |
| n | $y$ is directly proportional to $x^3$ | When: $x = 12,\ y = 864$ | | | | | | |
| o | $y$ is directly proportional to $x$ | When: $x = 14,\ y = 21$ | | | | | | |

LIVEWORKSHEETS