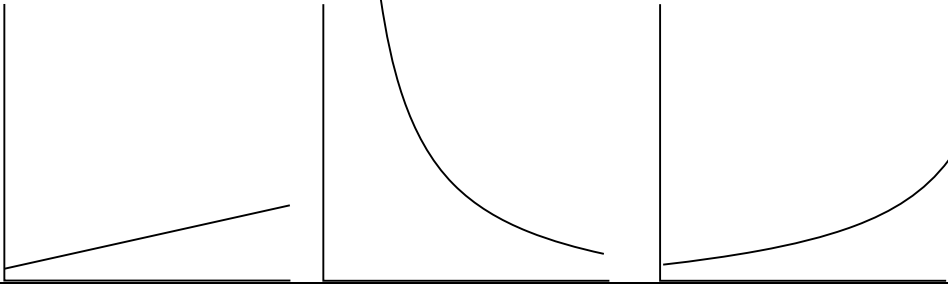


College and Career Readiness Mathematics

**Scoring Rubric
(Draft)**

| Short Tasks | | |
|--------------------|--|---------------|
| Q | Answer | Points |
| 1 | $a = 6, k = -11, n = -10$ | 1 |
| 2 | $R = \frac{rV}{12 - V}$ | 1 |
| 3a | Linear, Exponential Decay, Exponential Growth | 1 |
| 3b |  | 1 |
| 3c | $y = 3x + 3$ | 1 |
| Total | | 5 |

| Giantburgers | | Rubric | |
|---------------------|--|-------------------------------|----------------|
| | | Points | Section points |
| | Attempts to calculate the number of people who eat at Giantburger restaurants $8 \times 10^3 \times 25 \times 10^2 = 200 \times 10^5$ or equivalent <i>Partial credit</i> For partially correct solutions | 2 3 (2) (1) | 5 |
| | Attempts to find 7% of 3×10^8 $= 21 \times 10^6$ Attempts to calculate 2×10^7 as a percentage of 3×10^8 . $= 6.7\%$ | 2 2 or 2 2 | 4 |
| | States that the statement is true since: 6.7% is approximately equal to 7% Accept alternative correct solutions | 1 | 1 |
| | Total Points | | 10 |

| Printing Tickets | | Rubric | |
|---------------------|---|----------------------------|----------------|
| | | Points | Section points |
| 1. | <p>Gives correct formula such as: $C = 10 + t / 25$</p> <p><i>Partial credit</i></p> <p>$C = t / 25$ or $C = \frac{t+10}{25}$</p> | <p>2</p> <p>(1)</p> | <p>2</p> |
| 2. | <p>Draws a correct graph from: (0, 10) to (400, 26)</p> | <p>1 ft</p> <p>1 ft</p> | <p>2</p> |
| 3. | <p>Gives correct answers: $C = 20$ $t = 250$</p> <p>Shows correct work such as: $2t \div 25 = 10 + t \div 25$ $2t = 250 + t$ $C = 2 \times 250 \div 25$</p> | <p>1</p> <p>1</p> <p>2</p> | <p>4</p> |
| 4. | <p>Gives a correct explanation such as: If Susie buys less than 250 tickets, Sure Price will be cheaper, and if she buys more than 250 tickets, Best Print will be cheaper.</p> <p><i>Partial credit</i></p> <p>For a partially correct explanation</p> | <p>2 ft</p> <p>(1)</p> | <p>2</p> |
| Total Points | | | 10 |

| Circles in Triangles | Rubric | |
|---|-------------|----------------|
| | Points | Section points |
| 1. Triangle AOY is congruent to triangle AOX (Hypotenuse – Leg Postulate) | 1 | 1 |
| 2. Triangle COZ is congruent to triangle COX (Hypotenuse – Leg Postulate) $CZ = CX$ $CZ = CX = 4 - r$ Accept alternative methods | 1 1 | 2 |
| 3. Since triangle AOY is congruent to triangle AOX $AY = AX = 3 - r$ Since $AC = AX + XC$ $5 = 3 - r + 4 - r$ $r = 1$ Accept alternative methods such as using the Pythagorean Rule. | 1 1 1 | 3 |
| 4. Draws in construction lines and uses a similar method to Question #3, $13 = 5 - r + 12 - r$ $r = 2$ | 1 2 1 | 4 |
| Total Points | | 10 |