|  |
| --- |
| 1. Write an equation that expresses “*P* is jointly proportional to *x* and *y* and inversely proportional to the square of *d* and the square root of *c*.” |

|  |
| --- |
| 2. Express the statement as a formula.  ​  *s* is inversely proportional to the square of *t.*  ​  If *s* = 6 and *t* = 13, what is the constant of proportionality? |

|  |
| --- |
| 3. Evaluate the function at *f*(-3)  ​ |

|  |
| --- |
| 4. Evaluate the following piecewise defined function at the values *f* (–4), *f* (7), and *f* (10).  ​  ​  *f* (–4) = \_\_\_\_\_\_\_\_\_\_  ​  *f* (2.5)  = \_\_\_\_\_\_\_\_\_\_  ​  *f* (10)  = \_\_\_\_\_\_\_\_\_\_ |
|  |

|  |
| --- |
| 5. Find the domain of the following function:  ​  ​  Express your answer using interval notation. |

|  |
| --- |
| 6. Find the domain of the following function:  ​  Express your answer using interval notation. |

|  |
| --- |
| 7. For the function *f* (*x*) = *x* 2 -2x + 1, find  ​  ​ |

|  |
| --- |
| 8. For the function, find  , where |

|  |
| --- |
| 9. Find the net change in the value of the function between the given inputs.  ; from -3 to 2  ​ |