

Name : \_\_\_\_\_

## Linear Inequalities

L1S2

A) Observe the inequalities and complete the table.

| Inequality       | Is the boundary line dashed or solid? | Is the shaded region above or below the boundary line? |
|------------------|---------------------------------------|--|
| $y \leq x - 4$   |                                       |  |
| $y \geq -6x + 1$ |                                       |  |
| $y > -8x$        |                                       |  |
| $y \geq -7x - 5$ |                                       |  |
| $y < 5x + 9$     |                                       |  |

PREVIEW

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B) Analyze the problem

| Boundary line |       | Inequality                             |
|---------------|-------|--|
| Dashed        |       | <input type="checkbox"/> $-5$          |
| Solid         |       | <input type="checkbox"/> $-x - 3$      |
| Dashed        | Above | $y$ <input type="checkbox"/> $8x - 1$  |
| Solid         | Below | $y$ <input type="checkbox"/> $2x + 9$  |
| Solid         | Above | $y$ <input type="checkbox"/> $-7x + 4$ |

**Linear Inequalities**

A) Observe the inequalities and complete the table.

| Inequality       | Is the boundary line dashed or solid? | Is the shaded region above or below the boundary line? |
|------------------|---------------------------------------|--|
| $y \leq x - 4$   | <b>Solid</b>                          | <b>Below</b>   |
| $y \geq -6x + 1$ | <b>Solid</b>                          | <b>Above</b>   |
| $y > -8x$        |                                       | <b>Above</b>   |
| $y \geq -7x - 5$ |                                       | <b>Above</b>   |
| $y < 5x + 9$     |                                       | <b>Below</b>   |

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B) Analyze the problem

| Boundary line |       | Inequality               |
|---------------|-------|--------------------------|
| Dashed        |       | $\boxed{<}$ $-5$         |
| Solid         |       | $\boxed{\geq}$ $-x - 3$  |
| Dashed        | Above | $y \boxed{>} 8x - 1$     |
| Solid         | Below | $y \boxed{\leq} 2x + 9$  |
| Solid         | Above | $y \boxed{\geq} -7x + 4$ |