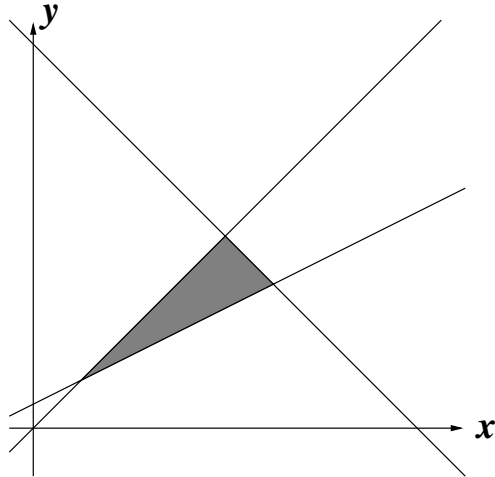


Name \_\_\_\_\_

1. (5 points) The graphs of  $y = 2x$ ,  $y = x + 1$ , and  $y = -2x + 16$  are sketched below and the area bounded by the curves is shaded in. Find the exact area of this shaded region.



2. (5 points) The graphs of  $x = y^2 - 14$  and  $x = 2y + 10$  are sketched below and the area between the two curves is shaded in. Find the exact area of this shaded region.

