

Solve each of the following inequalities for  $y$ :

1.  $\frac{-11}{4}x + \frac{14}{3}y > 20$
2.  $\frac{29}{6}x + \frac{-8}{4}y > \frac{-4}{4}$
3.  $6x + -2y \geq \frac{-19}{3}$
4.  $\frac{27}{5}x + \frac{12}{7}y \leq \frac{11}{2}$
5.  $\frac{1}{7}y \leq \frac{20}{2}$
6.  $\frac{-29}{7}x + \frac{8}{4}y \leq \frac{-3}{7}$
7.  $5x + -28y \leq \frac{-5}{6}$
8.  $\frac{30}{2}x + \frac{-2}{2}y > \frac{24}{3}$
9.  $\frac{-3}{4}x + \frac{2}{3}y > \frac{15}{5}$
10.  $\frac{21}{4}x + \frac{-9}{6}y \geq \frac{10}{6}$
11.  $\frac{-21}{6}x + -24y > \frac{-4}{3}$
12.  $\frac{4}{5}x + \frac{7}{4}y > \frac{16}{3}$
13.  $24x + \frac{13}{6}y \leq \frac{-19}{2}$
14.  $\frac{26}{7}x + -25y \leq \frac{-19}{4}$
15.  $\frac{-30}{2}x + \frac{-23}{4}y \leq \frac{-8}{5}$
16.  $\frac{-26}{4}x + 30y < \frac{-25}{4}$
17.  $\frac{-18}{7}x + \frac{-30}{4}y \leq \frac{-13}{5}$
18.  $\frac{30}{4}x + \frac{24}{4}y < \frac{9}{2}$
19.  $\frac{-23}{7}x + \frac{-17}{7}y \geq \frac{-11}{7}$
20.  $-8x + \frac{1}{3}y \geq \frac{-18}{2}$
21.  $\frac{14}{4}x + \frac{3}{3}y > \frac{-2}{6}$
22.  $25x + \frac{21}{3}y < \frac{-25}{4}$
23.  $\frac{7}{4}x + \frac{17}{5}y \geq 23$
24.  $\frac{-21}{3}x + \frac{-16}{5}y < \frac{-25}{2}$
25.  $\frac{1}{3}x + -26y \leq -2$
26.  $\frac{24}{5}x + \frac{-6}{3}y > \frac{5}{3}$
27.  $\frac{-13}{5}x + \frac{-18}{4}y > \frac{18}{4}$
28.  $\frac{23}{4}x + \frac{7}{6}y \geq 22$
29.  $\frac{8}{7}x + \frac{-28}{5}y < \frac{-9}{7}$
30.  $\frac{10}{7}x + \frac{2}{4}y < \frac{10}{3}$
31.  $\frac{-3}{3}x + \frac{12}{2}y > \frac{-7}{3}$
32.  $\frac{28}{4}x + \frac{-7}{2}y > \frac{18}{4}$
33.  $\frac{5}{7}x + \frac{-7}{2}y > \frac{25}{2}$
34.  $\frac{-2}{7}x + \frac{-11}{4}y \geq \frac{9}{6}$
35.  $\frac{25}{2}y < \frac{10}{2}$
36.  $\frac{-19}{5}x + \frac{16}{5}y > \frac{-23}{7}$
37.  $\frac{24}{3}x + \frac{15}{5}y \leq \frac{17}{6}$
38.  $-13x + -5y < \frac{-17}{6}$
39.  $\frac{-11}{2}x + \frac{-23}{4}y \geq \frac{-17}{7}$
40.  $-23x + \frac{-24}{5}y \leq -10$
41.  $\frac{-30}{5}x + \frac{-12}{6}y < -24$
42.  $\frac{5}{7}x + 10y \leq \frac{7}{7}$
43.  $-14x + \frac{28}{6}y \geq \frac{-10}{3}$
44.  $\frac{-14}{7}x + -28y > 12$
45.  $\frac{5}{5}x + 17y > \frac{-27}{5}$
46.  $\frac{-15}{2}x + \frac{10}{3}y \leq \frac{-1}{4}$
47.  $\frac{-8}{5}x + \frac{10}{6}y \geq \frac{8}{4}$
48.  $\frac{10}{6}x + -25y < \frac{-6}{2}$
49.  $\frac{-11}{3}x + \frac{-13}{6}y < \frac{-6}{6}$
50.  $\frac{-2}{3}x + \frac{-7}{4}y \leq -24$
51.  $\frac{6}{6}y < \frac{-17}{7}$
52.  $\frac{17}{2}x + -9y < \frac{-26}{5}$
53.  $\frac{26}{5}x + \frac{18}{4}y \leq \frac{-19}{5}$
54.  $\frac{23}{4}x + \frac{2}{3}y \geq 0$
55.  $25x + 8y > \frac{-21}{6}$
56.  $\frac{5}{5}x + \frac{14}{4}y \geq \frac{9}{4}$
57.  $\frac{21}{6}x + 9y \geq \frac{-4}{3}$
58.  $\frac{28}{3}x + \frac{8}{6}y \geq 22$
59.  $\frac{2}{7}x + \frac{6}{3}y < \frac{10}{2}$
60.  $\frac{3}{6}x + \frac{-9}{6}y < \frac{5}{6}$
61.  $\frac{-28}{7}x + -13y \geq 15$
62.  $\frac{-29}{6}x + \frac{28}{7}y \geq -4$
63.  $\frac{-29}{6}x + \frac{-21}{7}y < \frac{-8}{7}$
64.  $\frac{-23}{6}x + \frac{18}{6}y < 0$
65.  $\frac{-19}{2}x + \frac{27}{6}y > \frac{-18}{3}$
66.  $\frac{-25}{7}x + \frac{24}{5}y > \frac{-19}{3}$
67.  $\frac{-6}{2}x + \frac{10}{7}y \geq \frac{-10}{3}$
68.  $\frac{-12}{7}x + \frac{-9}{2}y > \frac{-30}{7}$
69.  $\frac{-12}{6}x + -15y > 17$
70.  $\frac{-15}{5}x + -21y < 0$
71.  $\frac{20}{5}x + \frac{27}{3}y \geq -19$
72.  $\frac{30}{5}x + \frac{-13}{7}y > \frac{-19}{6}$
73.  $\frac{19}{3}x + \frac{-23}{7}y \geq 11$
74.  $\frac{-16}{5}x + \frac{9}{5}y \geq \frac{-3}{6}$
75.  $\frac{25}{3}x + \frac{-14}{6}y \leq \frac{14}{7}$
76.  $-13x + \frac{-17}{7}y < \frac{22}{2}$
77.  $\frac{16}{4}x + \frac{4}{5}y > \frac{26}{6}$
78.  $-17x + \frac{-2}{6}y < \frac{-4}{3}$
79.  $-9x + \frac{8}{6}y < \frac{-29}{6}$

Solutions:

1.  $y > \frac{33}{56}x + \frac{30}{7}$
2.  $y < \frac{29}{12}x + \frac{1}{2}$
3.  $y \leq 3x + \frac{19}{6}$
4.  $y \leq \frac{-63}{20}x + \frac{77}{24}$
5.  $y \leq 70$
6.  $y \leq \frac{29}{14}x + \frac{-3}{14}$
7.  $y \geq \frac{5}{28}x + \frac{5}{168}$
8.  $y < 15x + -8$
9.  $y > \frac{9}{8}x + \frac{9}{2}$
10.  $y \leq \frac{7}{2}x + \frac{-10}{9}$
11.  $y < \frac{-7}{48}x + \frac{1}{18}$
12.  $y > \frac{-16}{35}x + \frac{64}{21}$
13.  $y \leq \frac{-144}{13}x + \frac{-57}{13}$
14.  $y \geq \frac{26}{175}x + \frac{19}{100}$
15.  $y \geq \frac{-60}{23}x + \frac{32}{115}$
16.  $y < \frac{13}{60}x + \frac{-5}{24}$
17.  $y \geq \frac{-12}{35}x + \frac{26}{75}$
18.  $y < \frac{-5}{4}x + \frac{3}{4}$
19.  $y \leq \frac{-23}{17}x + \frac{11}{17}$
20.  $y \geq 24x + -27$
21.  $y > \frac{-7}{2}x + \frac{-1}{3}$
22.  $y < \frac{-25}{7}x + \frac{-25}{28}$
23.  $y \geq \frac{-35}{68}x + \frac{115}{17}$
24.  $y > \frac{-35}{16}x + \frac{125}{32}$
25.  $y \geq \frac{1}{78}x + \frac{1}{13}$
26.  $y < \frac{12}{5}x + \frac{-5}{6}$
27.  $y < \frac{-26}{45}x + -1$
28.  $y \geq \frac{-69}{14}x + \frac{132}{7}$
29.  $y > \frac{10}{49}x + \frac{45}{196}$
30.  $y < \frac{-20}{7}x + \frac{20}{3}$
31.  $y > \frac{1}{6}x + \frac{-7}{18}$
32.  $y < 2x + \frac{-9}{7}$
33.  $y < \frac{10}{49}x + \frac{-25}{7}$
34.  $y \leq \frac{-8}{77}x + \frac{-6}{11}$
35.  $y < \frac{2}{5}$
36.  $y > \frac{19}{16}x + \frac{-115}{112}$
37.  $y \leq \frac{-8}{3}x + \frac{17}{18}$
38.  $y > \frac{-13}{5}x + \frac{17}{30}$
39.  $y \leq \frac{-22}{23}x + \frac{68}{161}$
40.  $y \geq \frac{-115}{24}x + \frac{25}{12}$
41.  $y > -3x + 12$
42.  $y \leq \frac{-1}{14}x + \frac{10}{10}$
43.  $y \geq 3x + \frac{-5}{7}$
44.  $y < \frac{-1}{14}x + \frac{-3}{7}$
45.  $y > \frac{-1}{17}x + \frac{-27}{85}$
46.  $y \leq \frac{9}{4}x + \frac{-3}{40}$
47.  $y \geq \frac{24}{25}x + \frac{6}{5}$
48.  $y > \frac{1}{15}x + \frac{3}{25}$
49.  $y > \frac{-22}{13}x + \frac{6}{13}$
50.  $y \geq \frac{-8}{21}x + \frac{96}{7}$
51.  $y < \frac{-17}{7}$
52.  $y > \frac{17}{18}x + \frac{26}{45}$
53.  $y \leq \frac{-52}{45}x + \frac{-38}{45}$
54.  $y \geq \frac{-69}{8}x$
55.  $y > \frac{-25}{8}x + \frac{-7}{16}$
56.  $y \geq \frac{-2}{7}x + \frac{9}{14}$
57.  $y \geq \frac{-7}{18}x + \frac{-4}{27}$
58.  $y \geq -7x + \frac{33}{2}$
59.  $y < \frac{-1}{7}x + \frac{5}{2}$
60.  $y > \frac{1}{3}x + \frac{-5}{9}$
61.  $y \leq \frac{-4}{13}x + \frac{-15}{13}$
62.  $y \geq \frac{29}{24}x + -1$
63.  $y > \frac{-29}{18}x + \frac{8}{21}$
64.  $y < \frac{23}{18}x$
65.  $y > \frac{19}{9}x + \frac{-4}{3}$
66.  $y > \frac{125}{168}x + \frac{-95}{72}$
67.  $y \geq \frac{21}{10}x + \frac{-7}{3}$
68.  $y < \frac{-8}{21}x + \frac{20}{21}$
69.  $y < \frac{-2}{15}x + \frac{-17}{15}$
70.  $y > \frac{-1}{7}x$
71.  $y \geq \frac{-4}{9}x + \frac{-19}{9}$
72.  $y < \frac{42}{13}x + \frac{133}{78}$
73.  $y \leq \frac{133}{69}x + \frac{-77}{23}$
74.  $y \geq \frac{16}{9}x + \frac{-5}{18}$
75.  $y \geq \frac{25}{7}x + \frac{-6}{7}$
76.  $y > \frac{-91}{17}x + \frac{-77}{17}$
77.  $y > -5x + \frac{65}{12}$
78.  $y > -51x + 4$
79.  $y < \frac{27}{4}x + \frac{-29}{8}$