Unit 6: Linear Equations
Name: $\qquad$

## 6.4: Solving Linear Inequalities by Using Addition and Subtraction Worksheet

1. Solve each inequality and then match each inequality with the graph of its solution.
a) $g+\int_{-2}<9$
$-3-3$
$9<6$
b) $5 \geq m-2$
$+2+2$
$7 \geq m$
$m \leq 7$
c) $2+y \geq-4$

- 2
d) $-1<f+3$
$y \geq-6$
$-4<f$
$f>-4$
Ci)

iii)

$B$



2. Solve, then graph each inequality.


$$
\begin{aligned}
& \text { b) } 4.2 s-15.25 \leq 4-\lambda s \\
& +1.3 \mathrm{~s}+1.3 \mathrm{~s} \\
& 5.5 s-15.25 \leq 4 \\
& +18.25+15.25 \\
& \frac{5.5 s}{5.5} \leq \frac{19.25}{5.5} \\
& s \leq 3.5
\end{aligned}
$$


c) $\frac{1^{\times 35}}{\frac{4}{2} \times 10}{ }^{2} \times \frac{13}{7} \times 10 \times 7$
(1) get common denominators.
$\frac{35}{70}+\frac{40}{70} p>\frac{91}{70}$
(2) work with the numerators.

$$
\begin{aligned}
35+40 p & >91 \\
-35 & -35 \\
\frac{40 p}{40} & >\frac{56}{40} \quad p>\frac{7}{5}=1 \frac{2}{5}=1.4
\end{aligned}
$$



