

$$\begin{aligned}
& (m = 0 \wedge n = 0 \wedge x = 0 \wedge y = 0) \vee (m = 0 \wedge x = 0 \wedge y = 0 \wedge n > 0) \vee \\
& (m = 0 \wedge x = -\sqrt{n} \wedge y = \frac{n}{x} \wedge n > 0) \vee \\
& (m = 0 \wedge x = \sqrt{n} \wedge y = \frac{n}{x} \wedge n > 0) \vee \\
& \left( n = \frac{m^2}{4} \wedge x = -\frac{1}{2}\sqrt{m^2 + 4n} - \frac{m}{2} \wedge y = m + x \wedge m > 0 \right) \vee \\
& \left( n = \frac{m^2}{4} \wedge x = \frac{1}{2}\sqrt{m^2 + 4n} + \frac{m}{2} \wedge y = x - m \wedge m > 0 \right) \vee \\
& (n = 2m^2 \wedge x = -\frac{1}{2}\sqrt{m^2 + 4n} - \frac{m}{2} \wedge y = \frac{n}{x} \wedge m > 0) \vee \\
& (n = 2m^2 \wedge x = \frac{1}{2}\sqrt{m^2 + 4n} + \frac{m}{2} \wedge y = \frac{n}{x} \wedge m > 0) \vee \\
& (x = -\frac{1}{2}\sqrt{m^2 + 4n} - \frac{m}{2} \wedge y = m + x \wedge m > 0 \wedge n > 2m^2) \vee \\
& (x = \frac{1}{2}\sqrt{m^2 + 4n} + \frac{m}{2} \wedge y = x - m \wedge m > 0 \wedge n > 2m^2) \vee \\
& (m = 0 \wedge y = x \wedge n > 0 \wedge 0 < x \wedge x < \sqrt{n}) \vee \\
& (m = 0 \wedge y = x \wedge n > 0 \wedge -\sqrt{n} < x \wedge x < 0) \vee \\
& (n = 0 \wedge x = 0 \wedge m > 0 \wedge -m \leq y \wedge y \leq m) \vee \\
& (n = 0 \wedge y = 0 \wedge m > 0 \wedge 0 < x \wedge x \leq m) \vee \\
& \left( n = 0 \wedge y = 0 \wedge m > 0 \wedge x < 0 \wedge -\frac{\sqrt{m^2}}{2} - \frac{m}{2} \leq x \right) \vee \\
& \left( n = \frac{m^2}{4} \wedge x = -m \wedge m > 0 \wedge \frac{n}{x} \leq y \wedge y \leq 0 \right) \vee \\
& \left( n = \frac{m^2}{4} \wedge x = m \wedge m > 0 \wedge 0 \leq y \wedge y \leq \frac{n}{x} \right) \vee \\
& \left( n = \frac{m^2}{4} \wedge x = -\frac{1}{2}\sqrt{m^2 - 4n} - \frac{m}{2} \wedge m > 0 \wedge \frac{n}{x} \leq y \wedge y \leq -\frac{n}{x} \right) \vee \\
& \left( n = \frac{m^2}{4} \wedge x = \frac{m}{2} - \frac{1}{2}\sqrt{m^2 - 4n} \wedge m > 0 \wedge -\frac{n}{x} \leq y \wedge y \leq \frac{n}{x} \right) \vee \\
& (n = 2m^2 \wedge x = -m \wedge m > 0 \wedge \frac{n}{x} \leq y \wedge y \leq 0) \vee \\
& (n = 2m^2 \wedge x = m \wedge m > 0 \wedge 0 \leq y \wedge y \leq \frac{n}{x}) \vee \\
& (x = -m \wedge m > 0 \wedge n > 2m^2 \wedge x - m \leq y \wedge y \leq 0) \vee \\
& (x = m \wedge m > 0 \wedge n > 2m^2 \wedge 0 \leq y \wedge y \leq m + x) \vee \\
& \left( x = -\frac{1}{2}\sqrt{m^2 + 4n} - \frac{m}{2} \wedge y = m + x \wedge m > 0 \wedge 0 < n \wedge n < \frac{m^2}{4} \right) \vee \\
& \left( x = -\frac{1}{2}\sqrt{m^2 + 4n} - \frac{m}{2} \wedge y = m + x \wedge m > 0 \wedge \frac{m^2}{4} < n \wedge n < 2m^2 \right) \vee \\
& \left( x = \frac{1}{2}\sqrt{m^2 + 4n} + \frac{m}{2} \wedge y = x - m \wedge m > 0 \wedge 0 < n \wedge n < \frac{m^2}{4} \right) \vee \\
& \left( x = \frac{1}{2}\sqrt{m^2 + 4n} + \frac{m}{2} \wedge y = x - m \wedge m > 0 \wedge \frac{m^2}{4} < n \wedge n < 2m^2 \right) \vee \\
& \left( n = \frac{m^2}{4} \wedge m > 0 \wedge -m < x \wedge x < -\frac{1}{2}\sqrt{m^2 - 4n} - \frac{m}{2} \wedge \frac{n}{x} \leq y \wedge y \leq m + x \right) \vee \\
& \left( n = \frac{m^2}{4} \wedge m > 0 \wedge m < x \wedge x < \frac{1}{2}\sqrt{m^2 + 4n} + \frac{m}{2} \wedge x - m \leq y \wedge y \leq \frac{n}{x} \right) \vee \\
& \left( n = \frac{m^2}{4} \wedge m > 0 \wedge -\frac{1}{2}\sqrt{m^2 - 4n} - \frac{m}{2} < x \wedge x < \frac{m}{2} - \frac{1}{2}\sqrt{m^2 + 4n} \wedge \frac{n}{x} \leq y \wedge y \leq m + x \right) \vee \\
& \left( n = \frac{m^2}{4} \wedge m > 0 \wedge \frac{m}{2} - \frac{1}{2}\sqrt{m^2 - 4n} < x \wedge x < m \wedge x - m \leq y \wedge y \leq \frac{n}{x} \right) \vee \\
& \left( n = \frac{m^2}{4} \wedge m > 0 \wedge -\frac{1}{2}\sqrt{m^2 + 4n} - \frac{m}{2} < x \wedge x < -m \wedge \frac{n}{x} \leq y \wedge y \leq m + x \right) \vee \\
& \left( n = \frac{m^2}{4} \wedge m > 0 \wedge \frac{1}{2}\sqrt{m^2 + 4n} - \frac{m}{2} < x \wedge x < \frac{m}{2} - \frac{1}{2}\sqrt{m^2 - 4n} \wedge x - m \leq y \wedge y \leq \frac{n}{x} \right) \vee \\
& \left( n = \frac{m^2}{4} \wedge m > 0 \wedge \frac{m}{2} - \frac{1}{2}\sqrt{m^2 + 4n} \leq x \wedge x \leq \frac{1}{2}\sqrt{m^2 + 4n} - \frac{m}{2} \wedge x - m \leq y \wedge y \leq m + x \right) \vee
\end{aligned}$$

