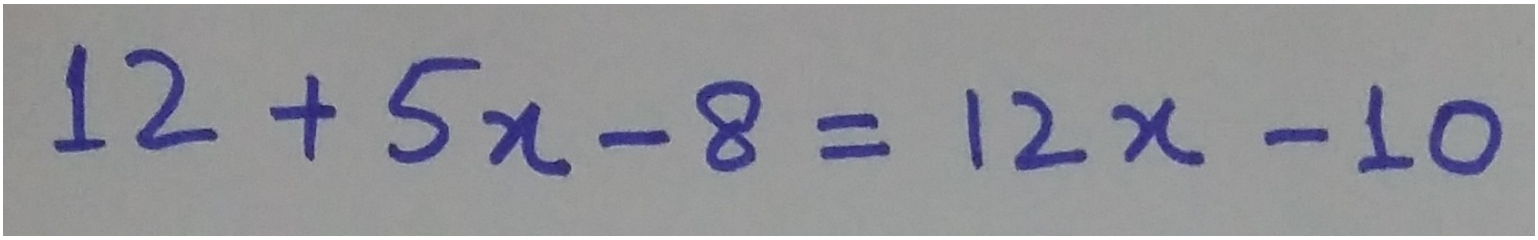
algebra.jpg

Input image:



Input options:

```
ocr: ['math']
```

Output rendered latex:

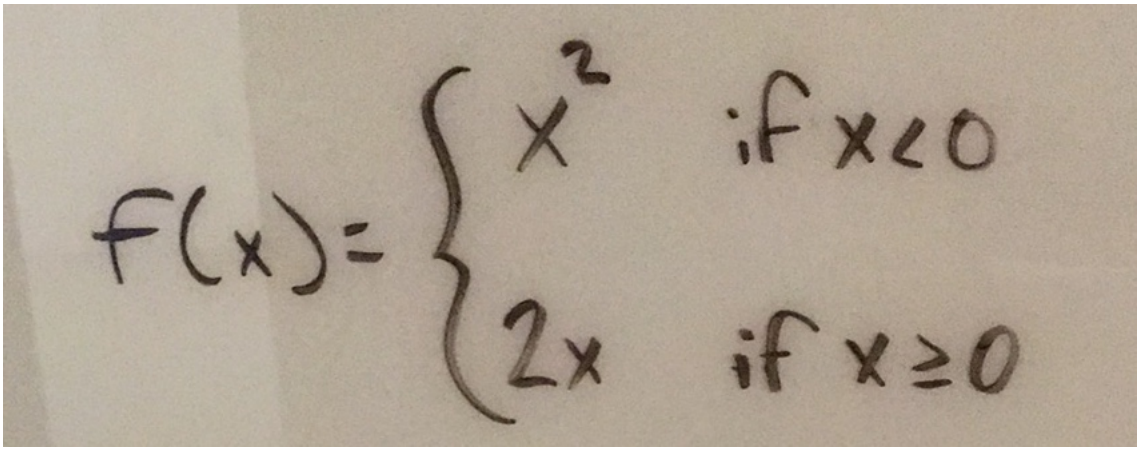
$$12 + 5x - 8 = 12x - 10$$

Output latex markup:

```
12+ 5x - 8= 12x - 10
```

cases_hw.jpg

Input image:



Input options:

```
ocr: ['math']
```

Output rendered latex:

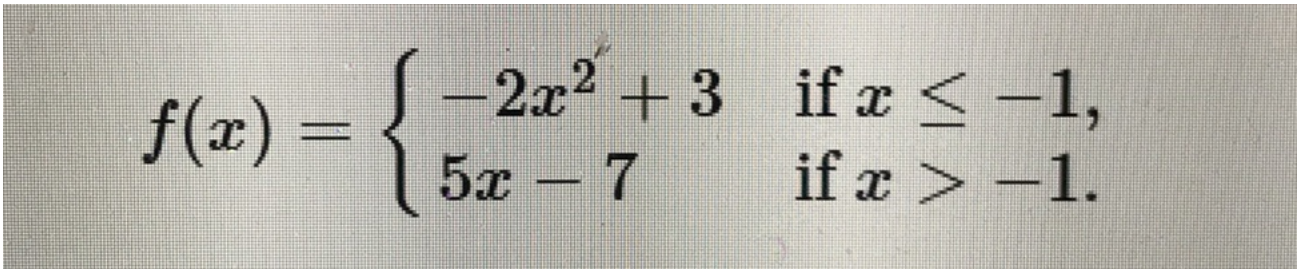
$$f(x) = \begin{cases} x^2 & \text{if } x < 0 \\ 2x & \text{if } x \geq 0 \end{cases}$$

Output latex markup:

```
f ( x ) = \left\{ \begin{array} { l l } { x ^ { 2} } & { \text{ if } x < 0} \\ { 2x } & { \text{ if } x \geq 0} \end{array} \right.
```

cases_printed_1.jpg

Input image:



Input options:

```
ocr: ['math']
```

Output rendered latex:

$$f(x) = \begin{cases} -2x^2 + 3 & \text{if } x \leq -1 \\ 5x - 7 & \text{if } x > -1 \end{cases}$$

Output latex markup:

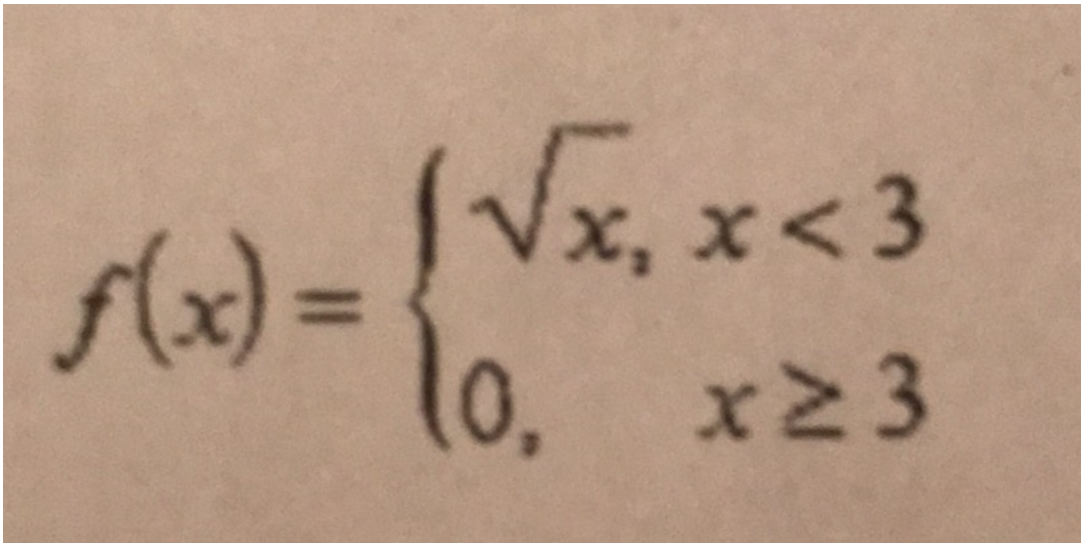
```
f ( x ) = \left\{ \begin{array} { l l } { - 2x ^ { 2} + 3} & { \text{ if } x \leq - 1} \\ { 5x - 7} & { \text{ if } x > - 1} \end{array} \ri
```

Output `detection_list`:

```
is_printed
```

cases_printed_2.jpg

Input image:



Input options:

```
ocr: ['math']
```

Output rendered latex:

$$f(x) = \begin{cases} \sqrt{x}, & x < 3 \\ 0, & x \geq 3 \end{cases}$$

Output latex markup:

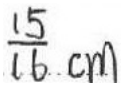
```
f ( x ) = \left\{ \begin{array} { l l } { \sqrt { x } ,} & { x < 3} \\ { 0,} & { x \geq 3} \end{array} \right.
```

Output `detection_list`:

```
is_printed
```

`cm_hw.jpg`

Input image:



Input options:

```
ocr: ['math']
```

Output rendered latex:

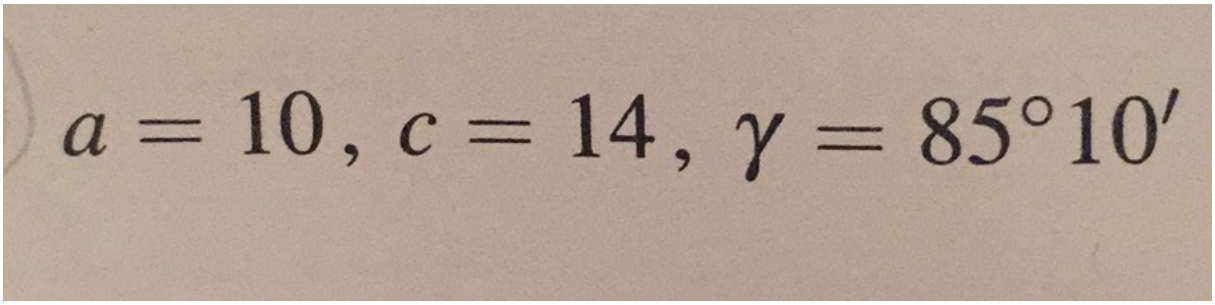
$$\frac{15}{16}\ \text{cm}$$

Output latex markup:

```
\frac { 15} { 16} \text{ cm }
```

`degrees_printed_0.jpg`

Input image:



Input options:

```
ocr: ['math']
```

Output rendered latex:

$$a = 10, c = 14, \gamma = 85^{\circ}10^{\prime}$$

Output latex markup:

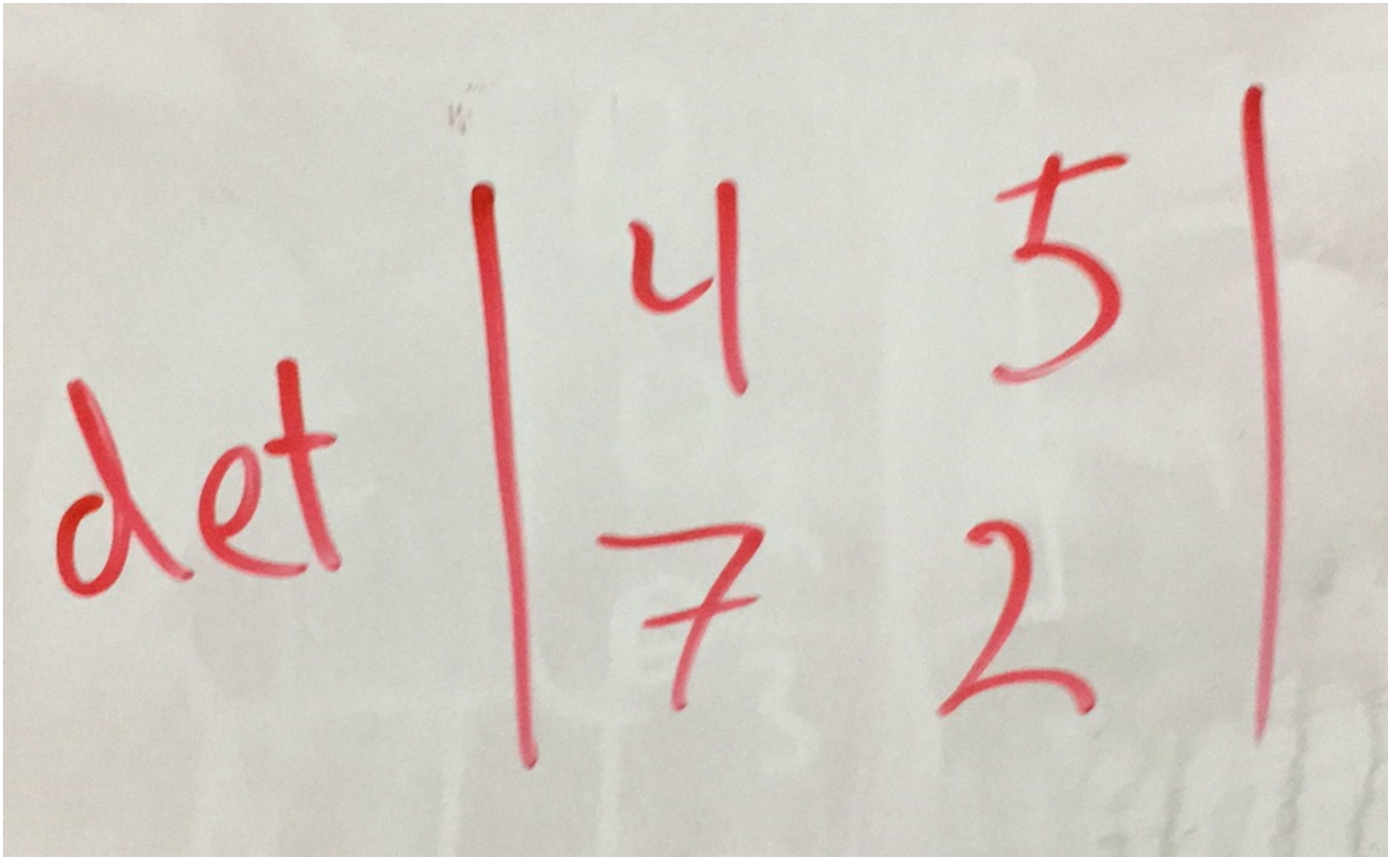
```
a = 10,c = 14,\gamma = 85^ { \circ } 10^ { \prime }
```

Output `detection_list`:

```
is_printed
```

determinant.jpg

Input image:



Input options:

```
ocr: ['math']
```

Output rendered latex:

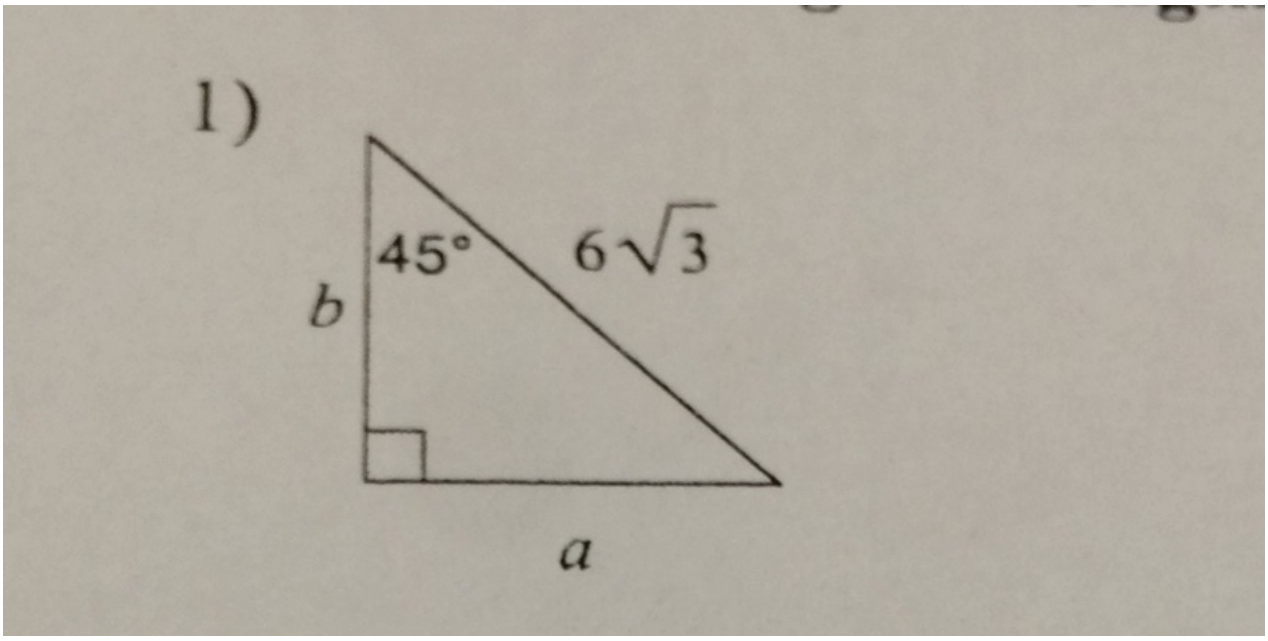
$$\operatorname{det}\left|\begin{array}{ll}4 & 5\\7 & 2\end{array}\right|$$

Output latex markup:

```
\operatorname{det} \left| \begin{array} { l l } { 4} & { 5} \\ { 7} & { 2} \end{array} \right|
```

diagram.jpg

Input image:



Input options:

```
ocr: ['math']
```

Output `detection_list`:

```
contains_diagram,contains_geometry,is_printed
```

`dog.jpg`

Input image:

Input options:

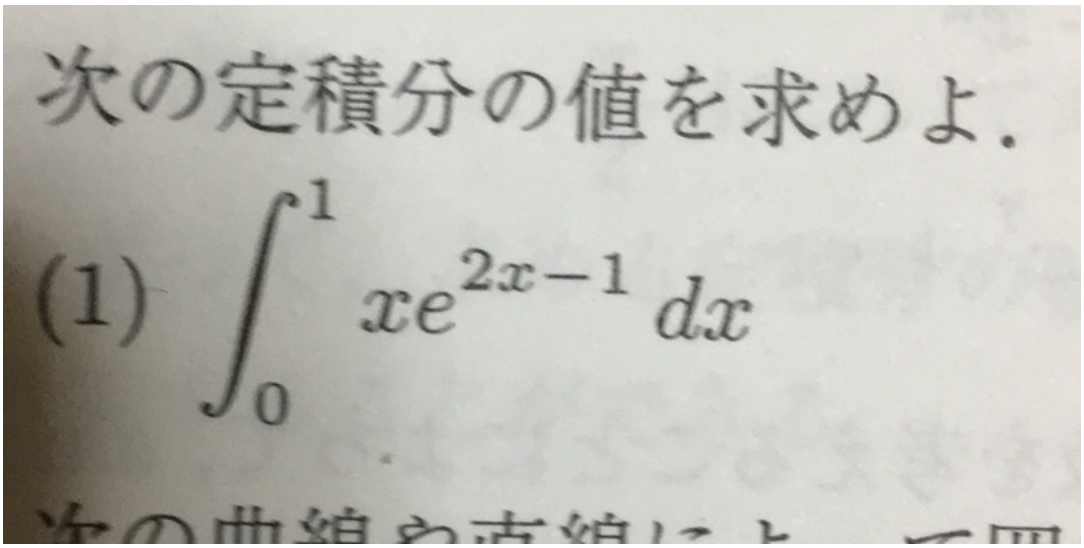
```
ocr: ['math']
```

Output `detection_list`:

```
is_not_math,is_blank
```

`foreign_printed_0.jpg`

Input image:



Input options:

`ocr: ['math']`

Output rendered latex:

$$\int_0^1 xe^{2x-1}dx$$

Output latex markup:

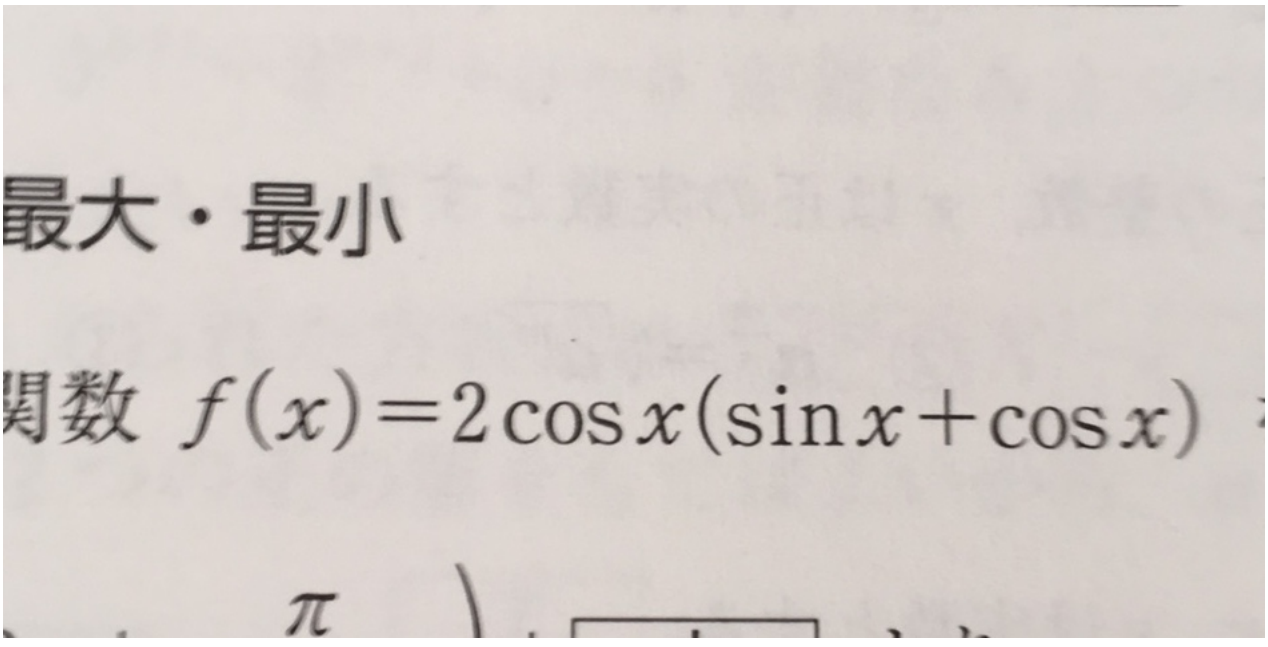
```
\int _ { 0} ^ { 1} x e ^ { 2x - 1} d x
```

Output `detection_list`:

`is_printed`

`foreign_printed_1.jpg`

Input image:



Input options:

```
ocr: ['math']
```

Output rendered latex:

$$f(x) = 2\cos x(\sin x + \cos x)$$

Output latex markup:

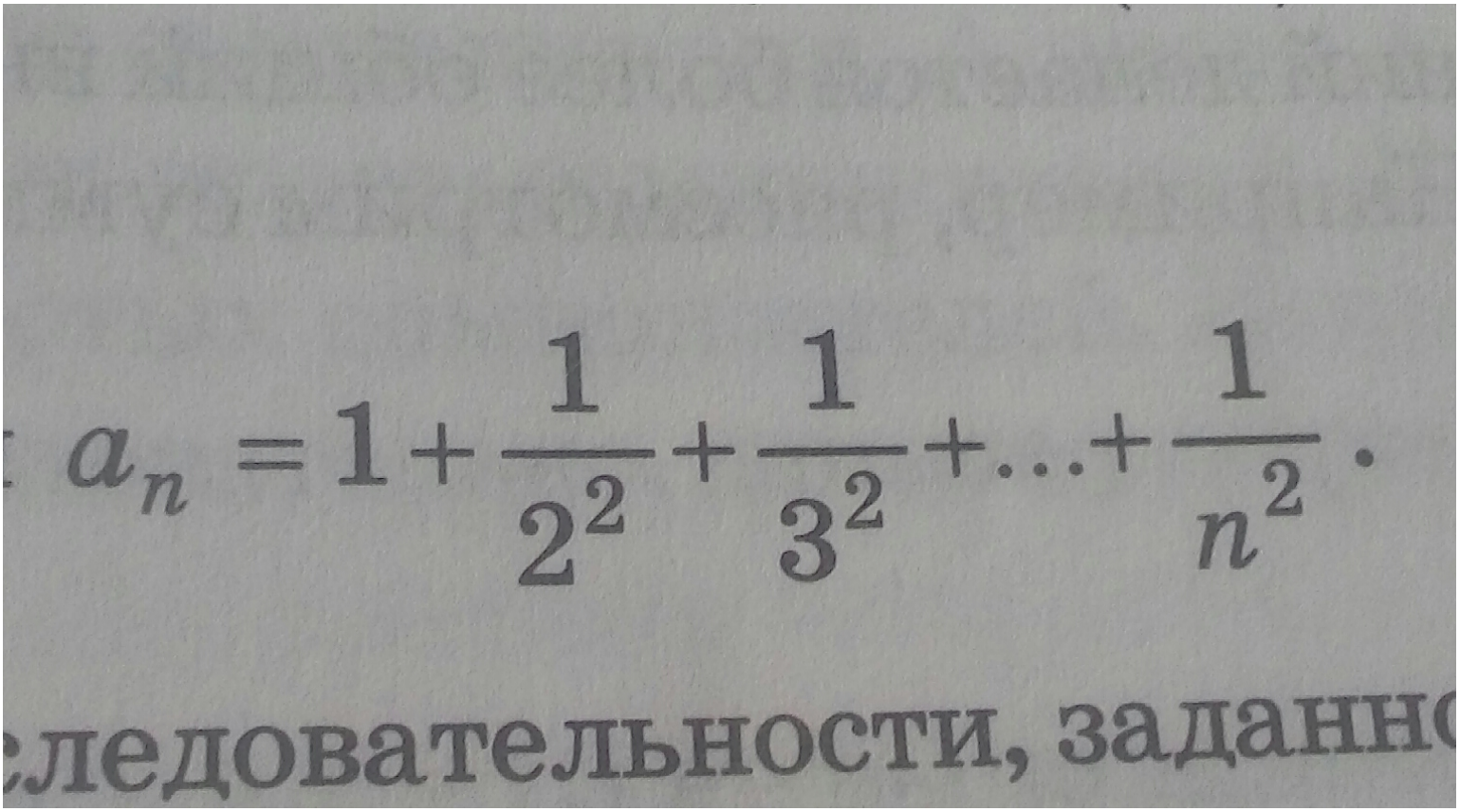
```
f ( x ) = 2\operatorname{cos} x ( \operatorname{sin} x + \operatorname{cos} x )
```

Output `detection_list`:

```
is_printed
```

foreign_printed_2.jpg

Input image:



Input options:

```
ocr: ['math']
```

Output rendered latex:

$$a_n = 1 + \frac{1}{2^2} + \frac{1}{3^2} + \cdots + \frac{1}{n^2}$$

Output latex markup:

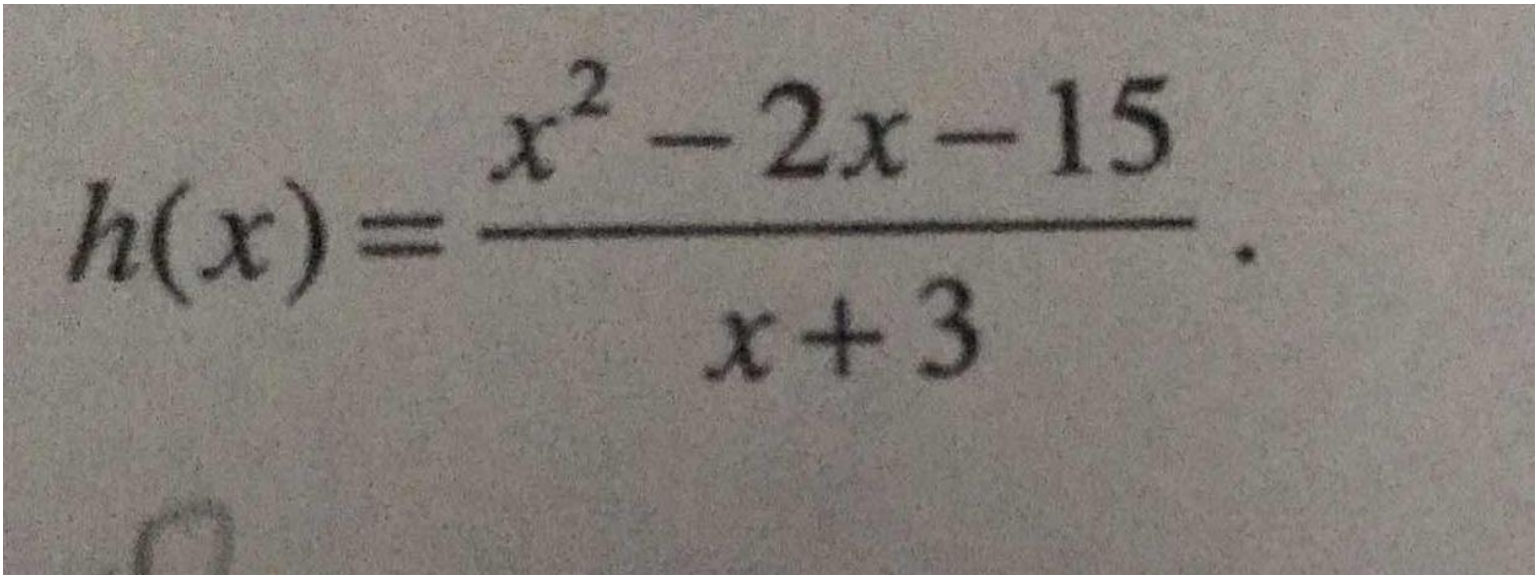
```
a _ { n } = 1+ \frac { 1} { 2^ { 2} } + \frac { 1} { 3^ { 2} } + \dots + \frac { 1} { n ^ { 2} }
```

Output `detection_list`:

`is_printed`

`fraction.jpg`

Input image:



Input options:

`ocr: ['math']`

Output rendered latex:

$$h(x) = \frac{x^2 - 2x - 15}{x + 3}$$

Output latex markup:

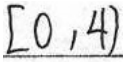
```
h ( x ) = \frac { x ^ { 2} - 2x - 15} { x + 3}
```

Output `detection_list`:

`is_printed`

`grading_0.jpg`

Input image:



Input options:

`ocr: ['math']`

Output rendered latex:

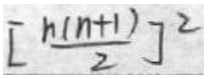
$$[0, 4)$$

Output latex markup:

`[ 0,4)`

grading_1.jpg

Input image:



Input options:

`ocr: ['math']`

Output rendered latex:

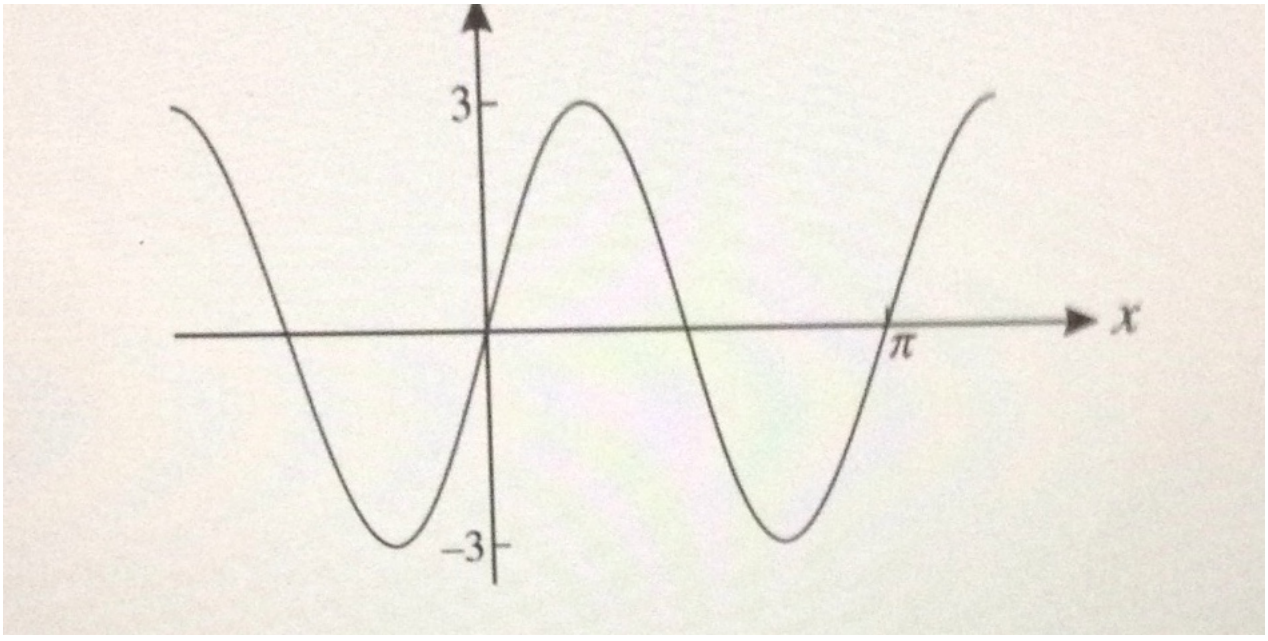
$$[\frac{n(n+1)}{2}]^2$$

Output latex markup:

`[ \frac { n ( n + 1) } { 2} ] ^ { 2}`

graph.jpg

Input image:



Input options:

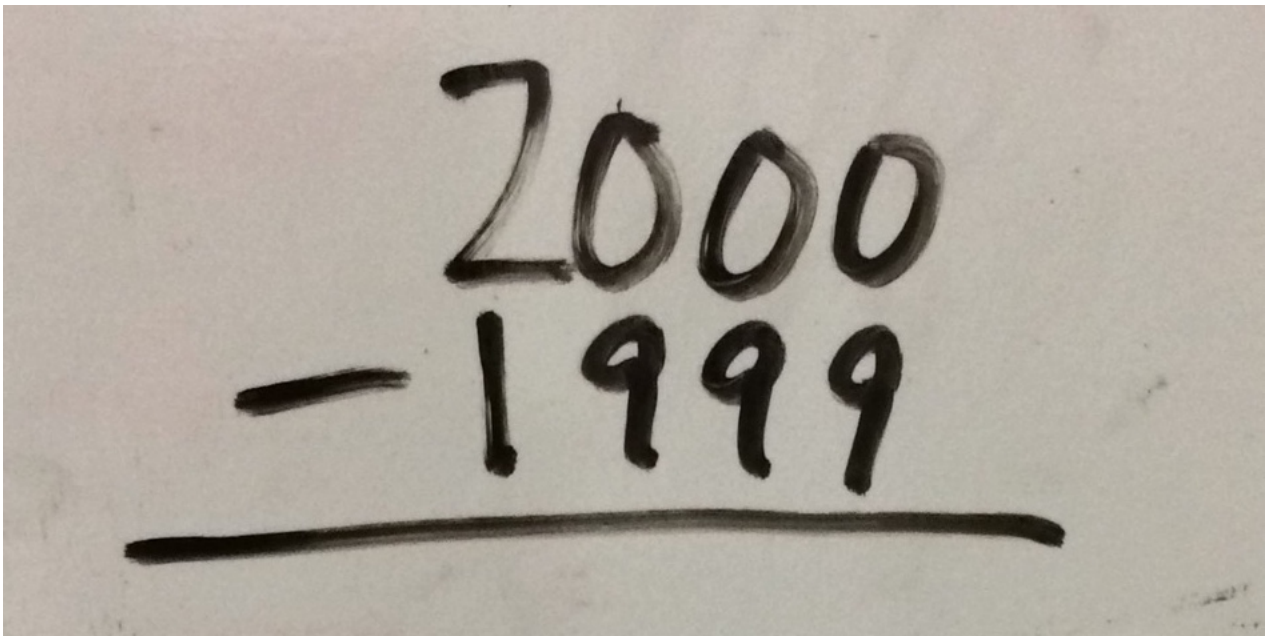
`ocr: ['math']`

Output `detection_list`:

`contains_diagram,contains_geometry,is_printed`

hline_hw_0.jpg

Input image:



Input options:

`ocr: ['math']`

Output rendered latex:

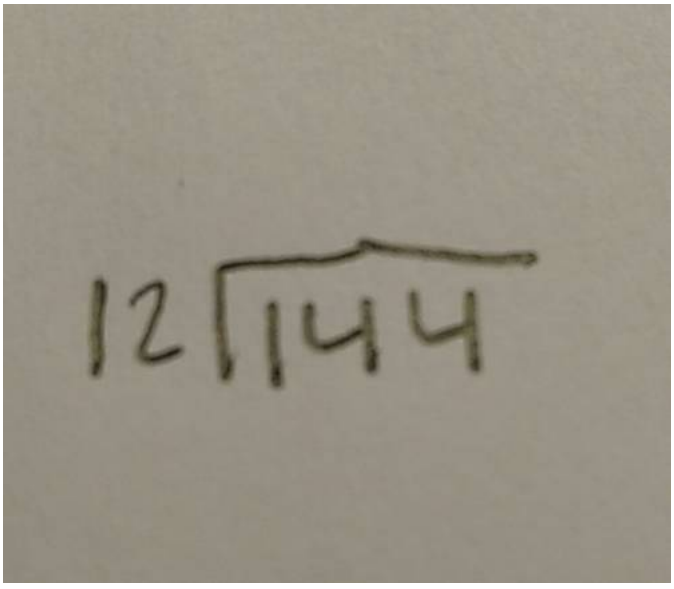
$$\begin{array}{r} 2000 \\ -1999 \\ \hline \end{array}$$

Output latex markup:

```
\left.\begin{array} { r } { 2000} \\ { - 1999} \\ \hline \end{array} \right.
```

hline_hw_1.jpg

Input image:



Input options:

`ocr: ['math']`

Output rendered latex:

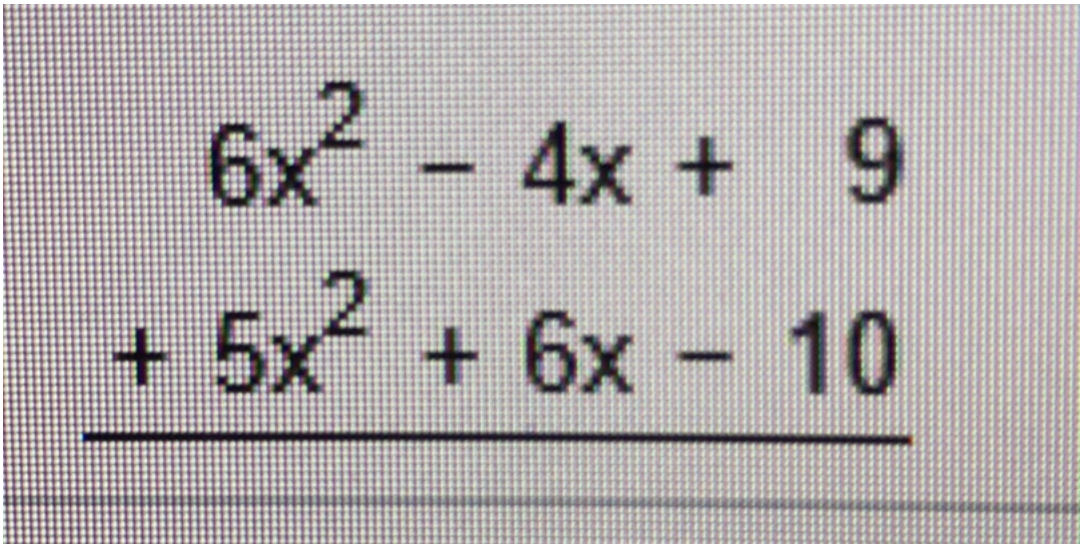
$$12\overline{)144}$$

Output latex markup:

```
12\longdiv { 144}
```

hline_printed_0.jpg

Input image:



Input options:

`ocr: ['math']`

Output rendered latex:

$$\begin{array}{r} 6x^2 - 4x + 9 \\ +5x^2 + 6x - 10 \\ \hline \end{array}$$

Output latex markup:

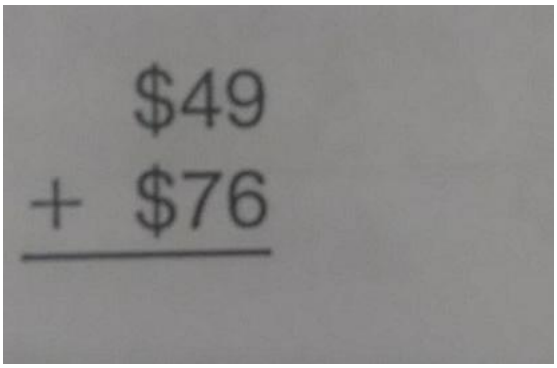
```
\left.\begin{array} { r } { 6x ^ { 2} - 4x + 9} \\ { + 5x ^ { 2} + 6x - 10} \\ \hline \end{array} \right.
```

Output `detection_list` :

`is_printed`

hline_printed_1.jpg

Input image:



Input options:

```
ocr: ['math']
```

Output rendered latex:

$$\begin{array}{r} \$49 \\ +\quad \$76 \\ \hline \end{array}$$

Output latex markup:

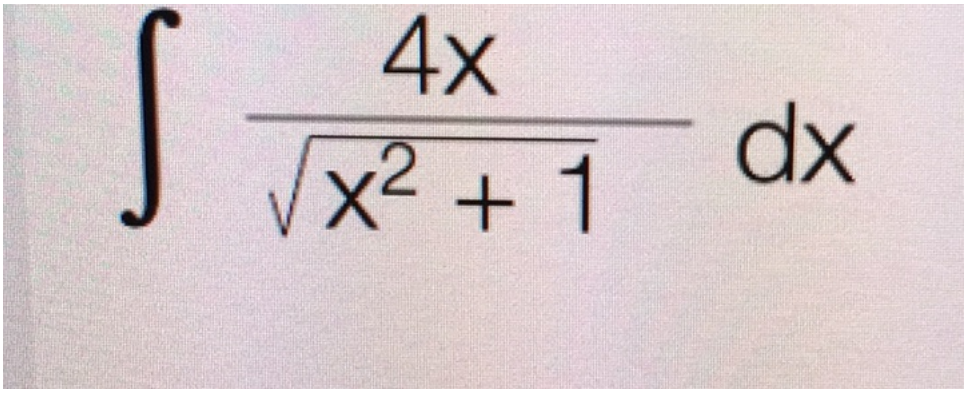
```
\left.\begin{array} { r } { $ 49} \\ { + \quad $ 76} \\ \hline \end{array} \right.
```

Output `detection_list`:

```
is_printed
```

`integral.jpg`

Input image:



Input options:

```
ocr: ['math']
```

Output rendered latex:

$$\int \frac{4x}{\sqrt{x^2+1}} dx$$

Output latex markup:

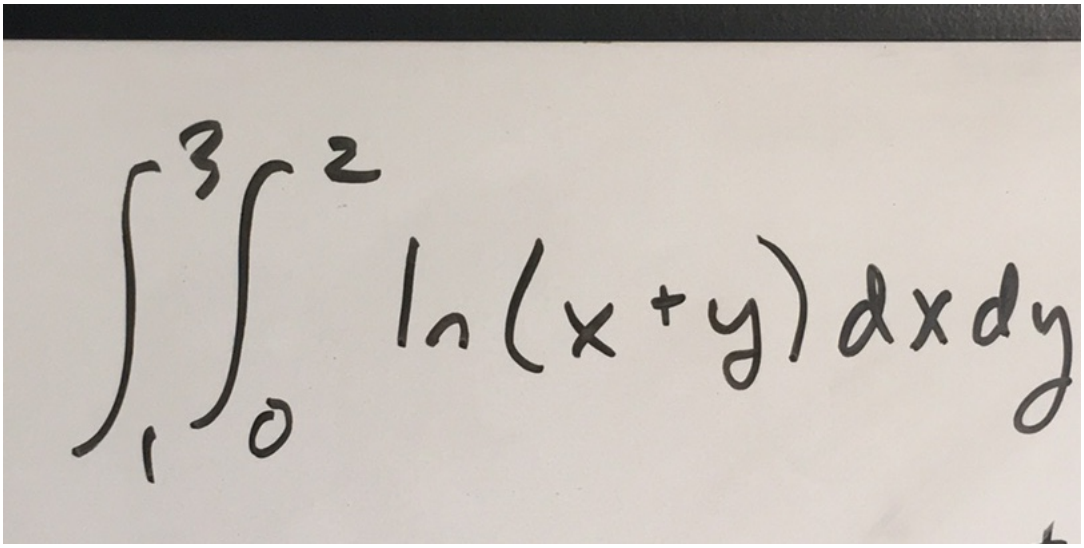
```
\int \frac { 4x } { \sqrt { x ^ { 2} + 1} } d x
```

Output `detection_list` :

`is_printed`

`integral_2.jpg`

Input image:



Input options:

`ocr: ['math']`

Output rendered latex:

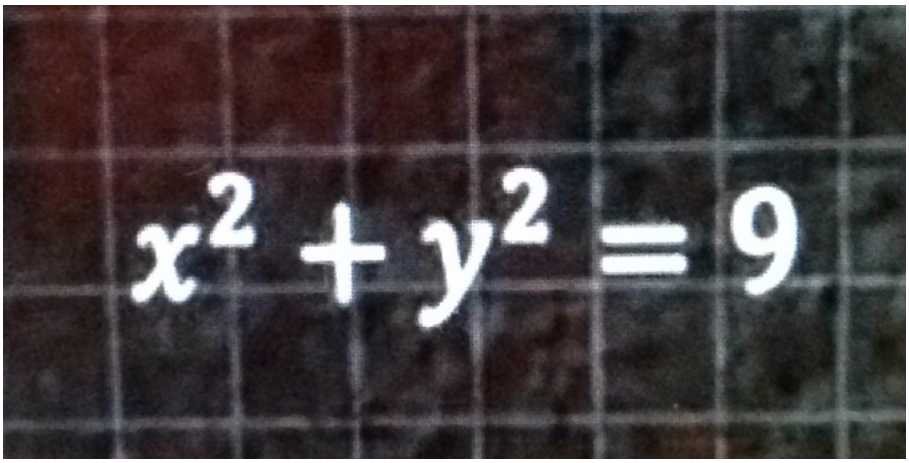
$$\int_{1}^{3} \int_{0}^{2} \ln(x+y) dx dy$$

Output latex markup:

```
\int _ { 1} ^ { 3} \int _ { 0} ^ { 2} \operatorname{ln} ( x + y ) d x d y
```

`inverted.jpg`

Input image:



Input options:

```
ocr: ['math']
```

Output rendered latex:

$$x^2 + y^2 = 9$$

Output latex markup:

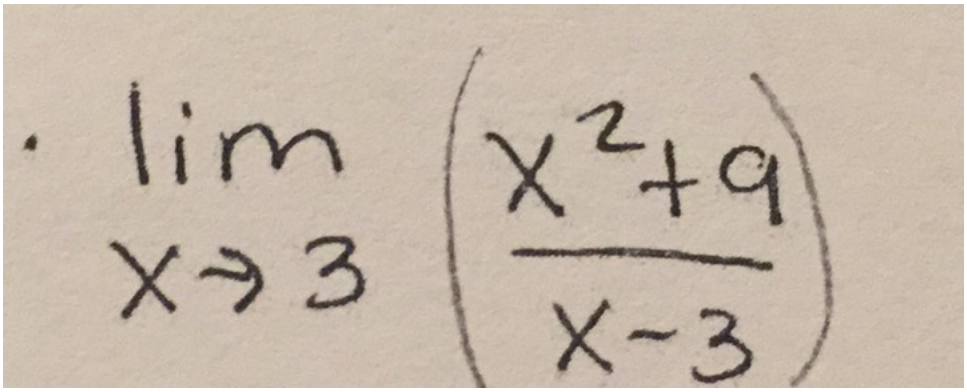
```
x ^ { 2} + y ^ { 2} = 9
```

Output `detection_list`:

```
is_inverted,is_printed
```

limit.jpg

Input image:



Input options:

```
ocr: ['math']
```

Output rendered latex:

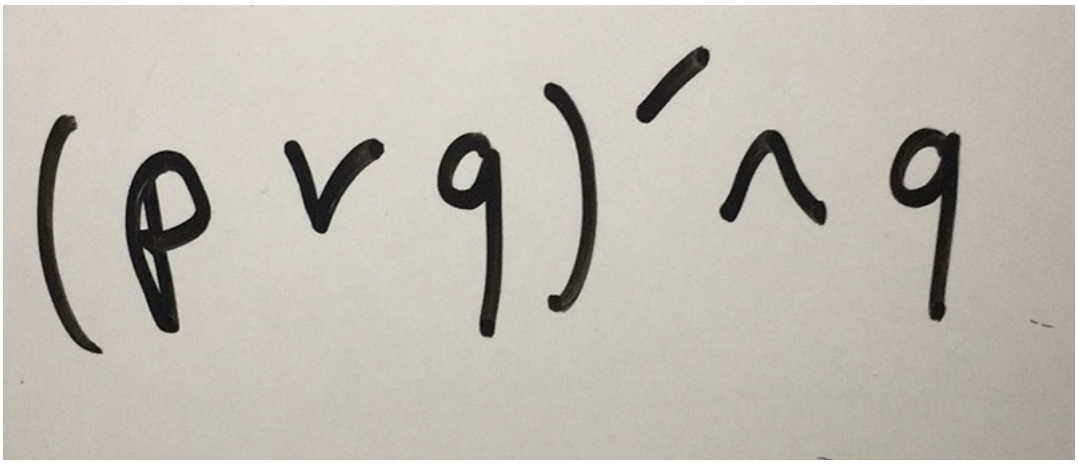
$$\lim_{x \to 3} (\frac{x^2 + 9}{x - 3})$$

Output latex markup:

```
\operatorname{lim} _ { x \rightarrow 3} ( \frac { x ^ { 2} + 9} { x - 3} )
```

logic_hw_0.jpg

Input image:



Input options:

```
ocr: ['math']
```

Output rendered latex:

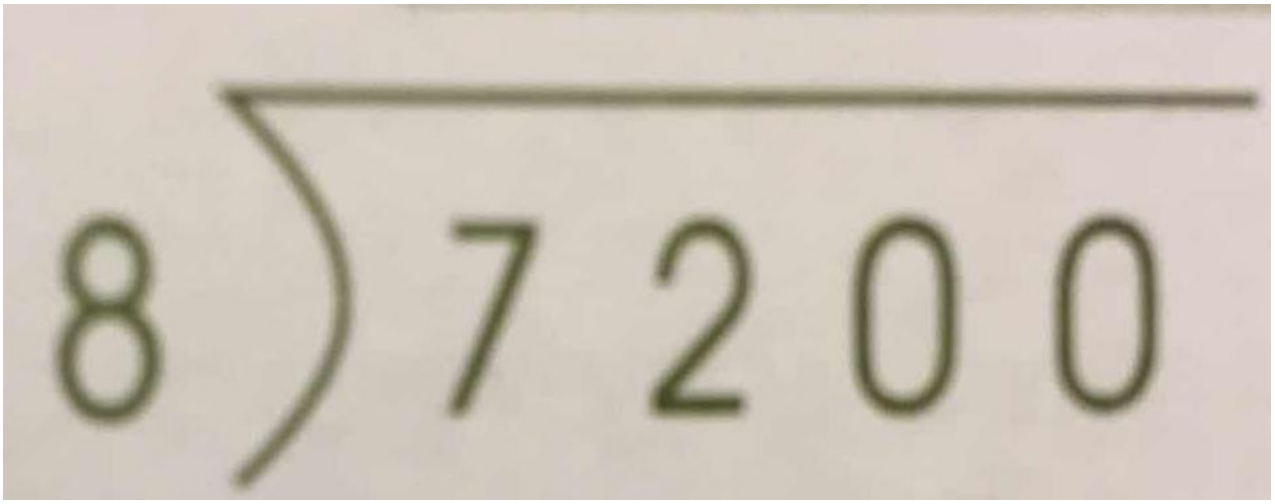
$$(p \vee q)' \wedge q$$

Output latex markup:

```
( p \vee q ) ^ { \prime } \wedge q
```

long_division.jpg

Input image:



Input options:

```
ocr: ['math']
```

Output rendered latex:

$$8\overline{)7200}$$

Output latex markup:

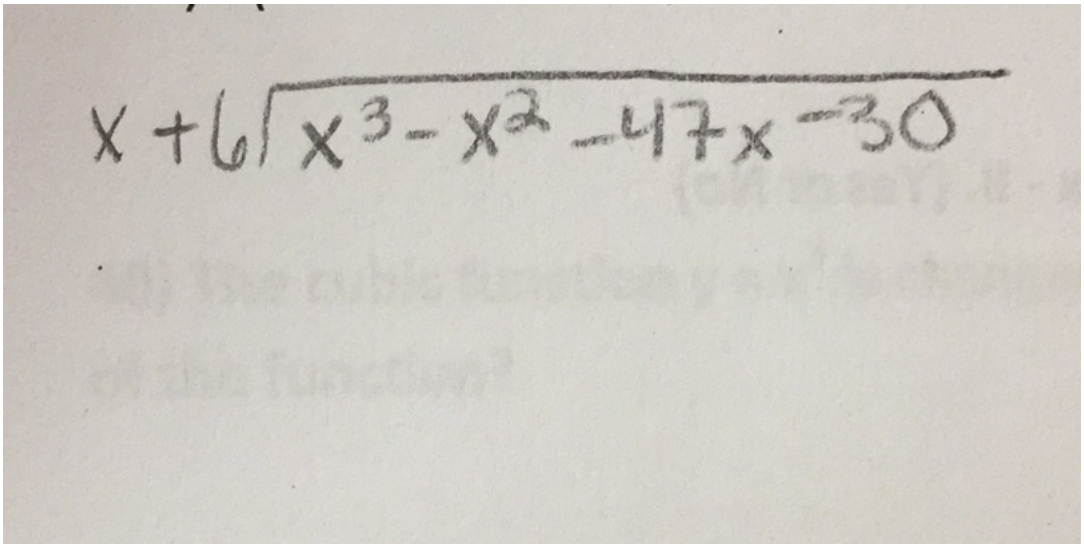
```
8\longdiv { 7200}
```

Output `detection_list` :

`is_printed`

`long_division_2.jpg`

Input image:



Input options:

`ocr: ['math']`

Output rendered latex:

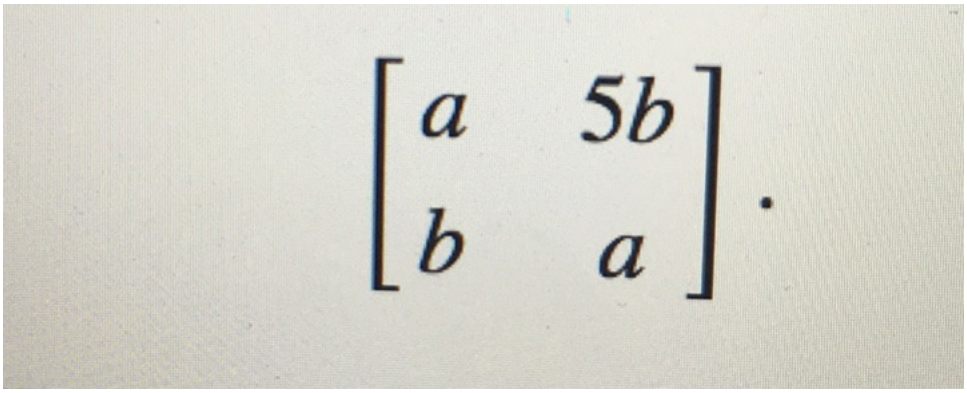
$$x + 6\overline{)x^3 - x^2 - 47x - 30}$$

Output latex markup:

```
x + 6\longdiv { x ^ { 3} - x ^ { 2} - 47x - 30}
```

`matrix_2x2.jpg`

Input image:



$$\begin{bmatrix} a & 5b \\ b & a \end{bmatrix}.$$

Input options:

`ocr: ['math']`

Output rendered latex:

$$\left[\begin{array} { c c } { a } & { 5b } \\ { b } & { a } \end{array} \right]$$

Output latex markup:

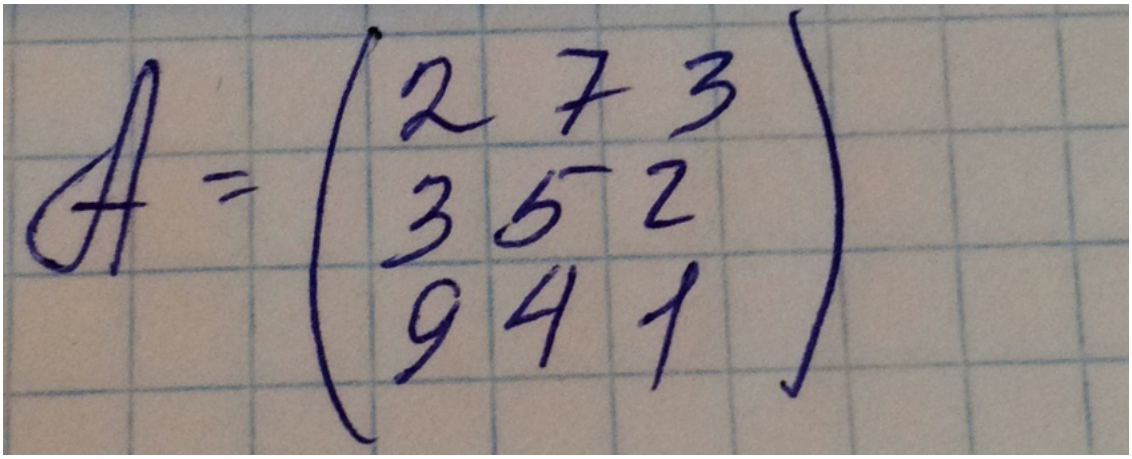
```
\left[ \begin{array} { c c } { a } & { 5b } \\ { b } & { a } \end{array} \right]
```

Output `detection_list`:

```
is_printed
```

matrix_3x3.jpg

Input image:



Input options:

```
ocr: ['math']
```

Output rendered latex:

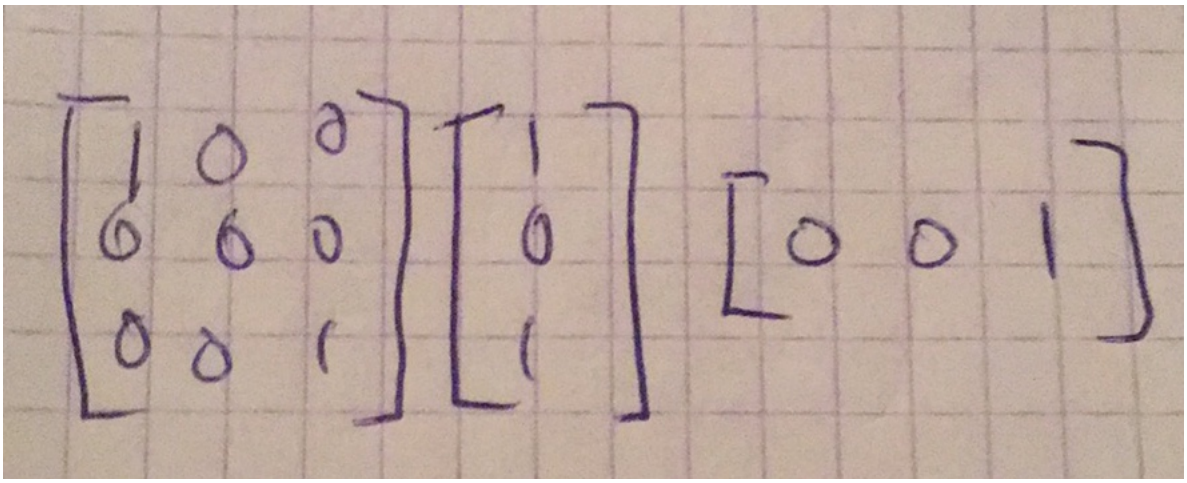
$$A = \left(\begin{array} { l l l } { 2} & { 7} & { 3} \\ { 3} & { 5} & { 2} \\ { 9} & { 4} & { 1} \end{array} \right)$$

Output latex markup:

```
A = \left( \begin{array} { l l l } { 2} & { 7} & { 3} \\ { 3} & { 5} & { 2} \\ { 9} & { 4} & { 1} \end{array} \right)
```

matrix_multiplication.jpg

Input image:



Input options:

```
ocr: ['math']
```

Output rendered latex:

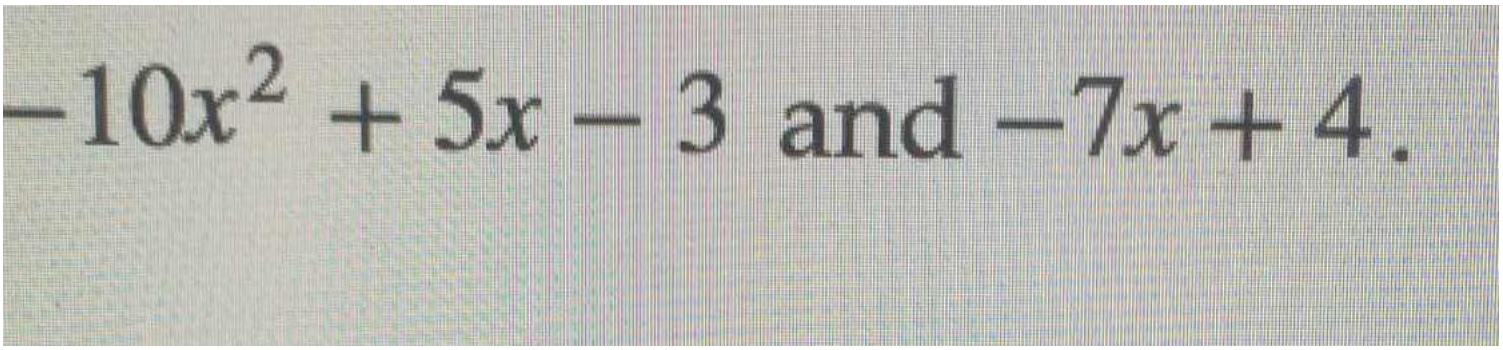
$$\begin{bmatrix} 1 & 0 & 0 \\ 0 & 0 & 0 \\ 0 & 0 & 1 \end{bmatrix} \begin{bmatrix} 1 \\ 0 \\ 1 \end{bmatrix} \begin{bmatrix} 0 & 0 & 1 \end{bmatrix}$$

Output latex markup:

```
\left[ \begin{array} { l l l } { 1} & { 0} & { 0} \\ { 0} & { 0} & { 0} \\ { 0} & { 0} & { 1} \end{array} \right] \left[ \begin{array} { l } { 1 }
```

mixed_text_math.jpg

Input image:



Input options:

```
ocr: ['math', 'text']
```

Output rendered latex:

$$-10x^2 + 5x - 3 \text{ and } -7x + 4$$

Output latex markup:

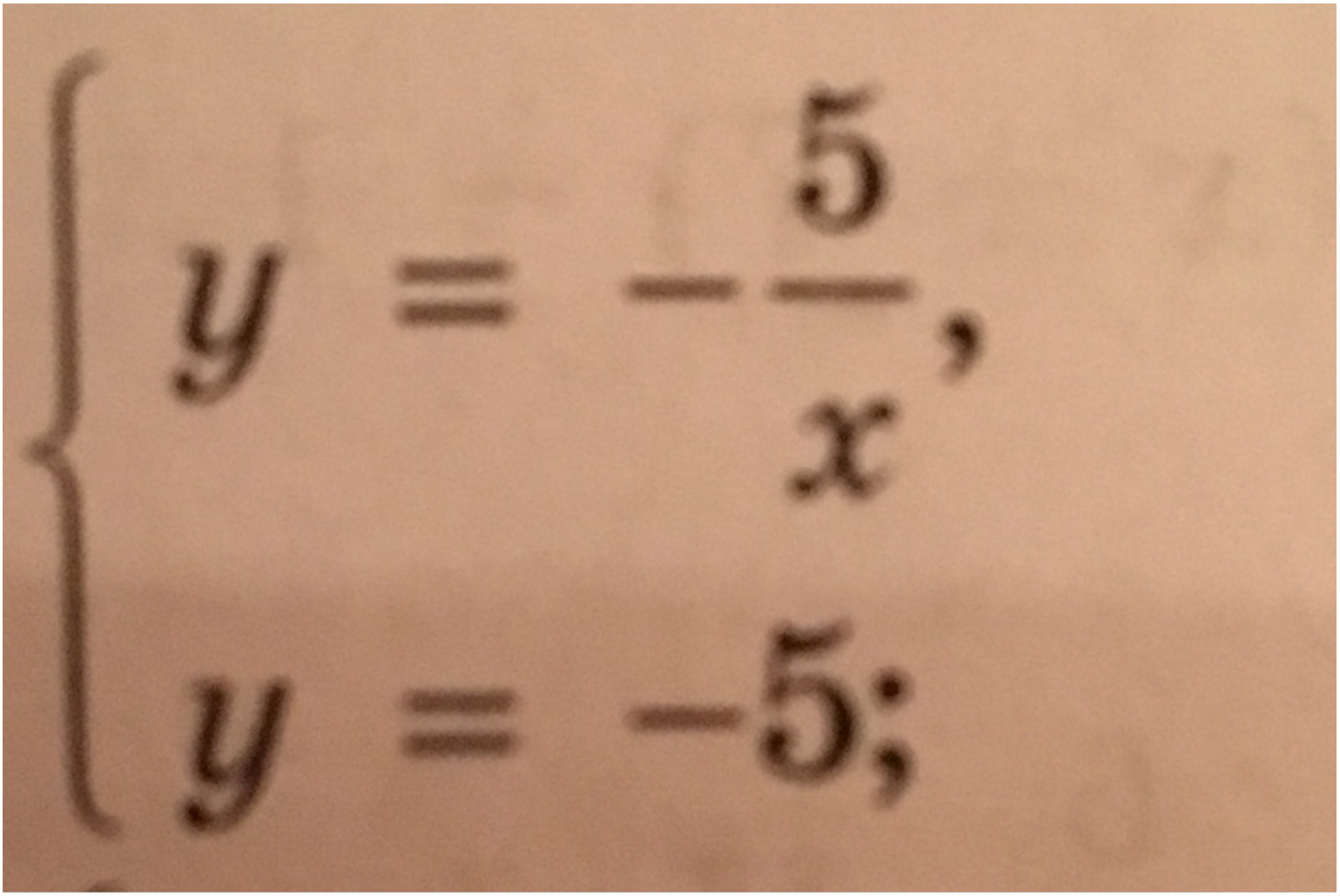
```
- 10x ^ { 2} + 5x - 3\text{ and } - 7x + 4
```

Output `detection_list`:

`is_printed`

`multiple_equations.jpg`

Input image:



Input options:

`ocr: ['math']`

Output rendered latex:

$$\begin{cases} y = -\frac{5}{x} \\ y = -5 \end{cases}$$

Output latex markup:

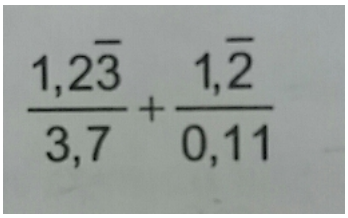
```
\left\{ \begin{array} { l } { y = - \frac { 5 } { x } } \\ { y = - 5 } \end{array} \right.
```

Output `detection_list`:

`is_printed`

`overline_printed.jpg`

Input image:



Input options:

```
ocr: ['math']
```

Output rendered latex:

$$\frac{1,2\overline{3}}{3,7}+\frac{1,\overline{2}}{0,11}$$

Output latex markup:

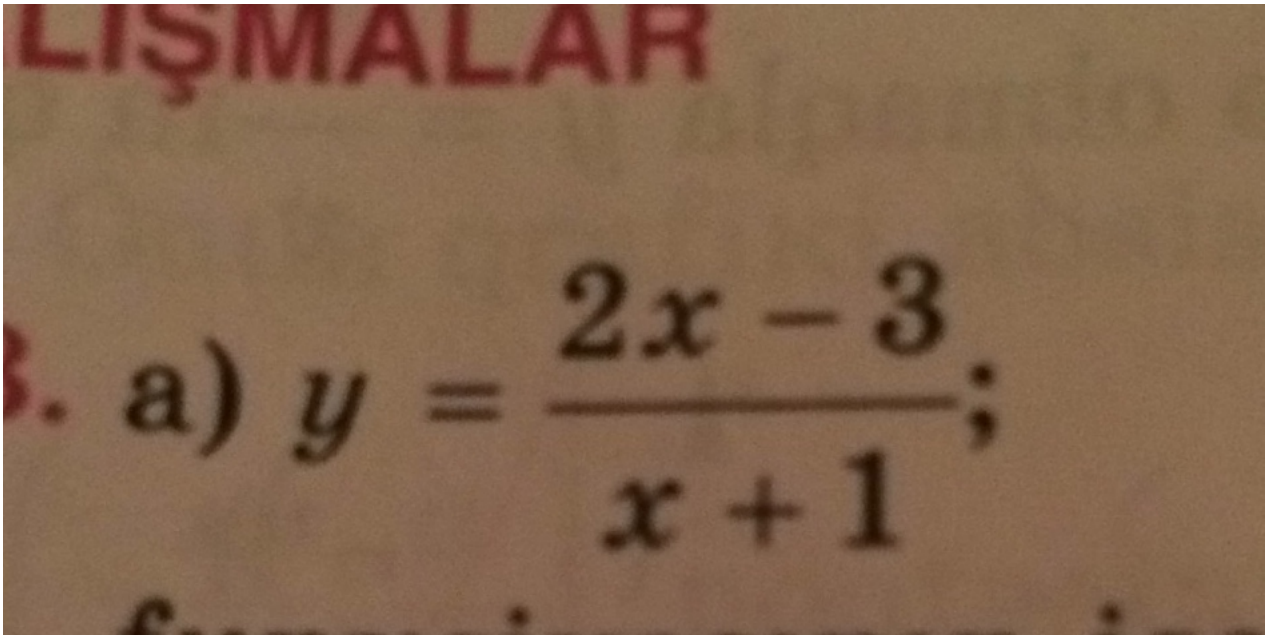
```
\frac { 1,2\overline { 3} } { 3,7} + \frac { 1,\overline { 2} } { 0,11}
```

Output `detection_list`:

```
is_printed
```

`problem_number.jpg`

Input image:



Input options:

```
ocr: ['math']
```

Output rendered latex:

$$y=\frac{2x-3}{x+1}$$

Output latex markup:

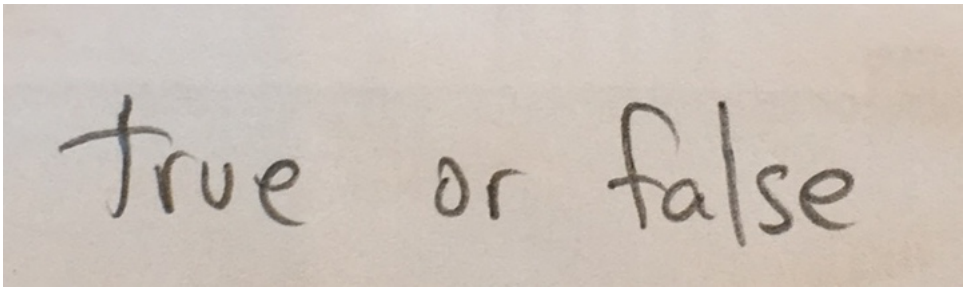
```
y = \frac { 2x - 3} { x + 1}
```

Output `detection_list`:

```
is_printed
```

`text_hw_0.jpg`

Input image:



Input options:

```
ocr: ['math', 'text']
```

Output rendered latex:

True or false

Output latex markup:

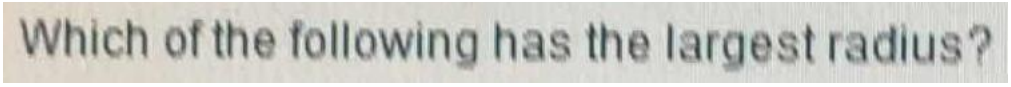
```
\text{ True or false }
```

Output `detection_list`:

```
is_not_math
```

`text_printed_0.jpg`

Input image:



Input options:

```
ocr: ['math', 'text']
```

Output rendered latex:

Which of the following has the largest radius?

Output latex markup:

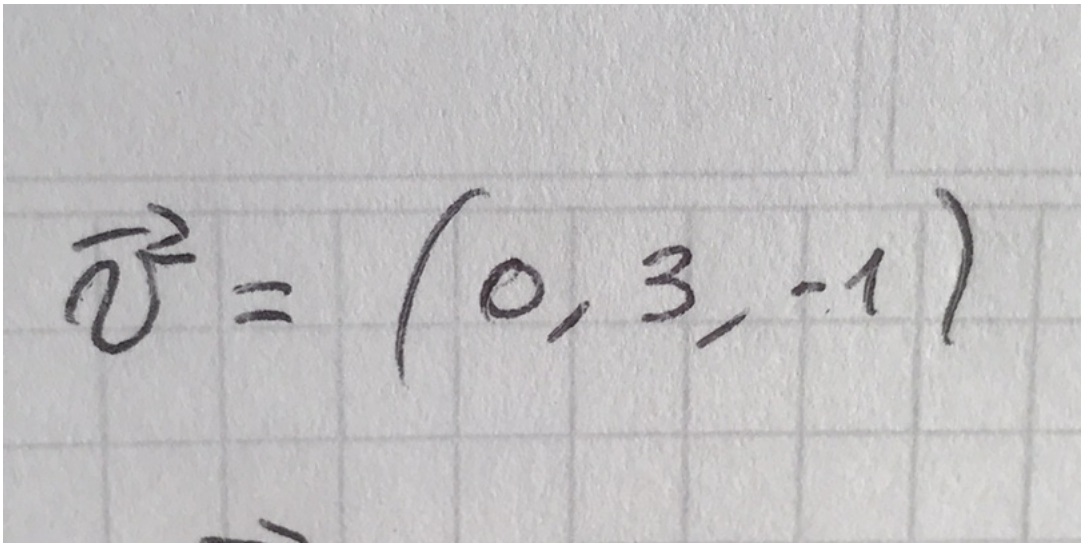
```
\text{ Which of the following has the largest radius? }
```

Output `detection_list`:

```
is_not_math,is_printed
```

vec_hw.jpg

Input image:



Input options:

```
ocr: ['math']
```

Output rendered latex:

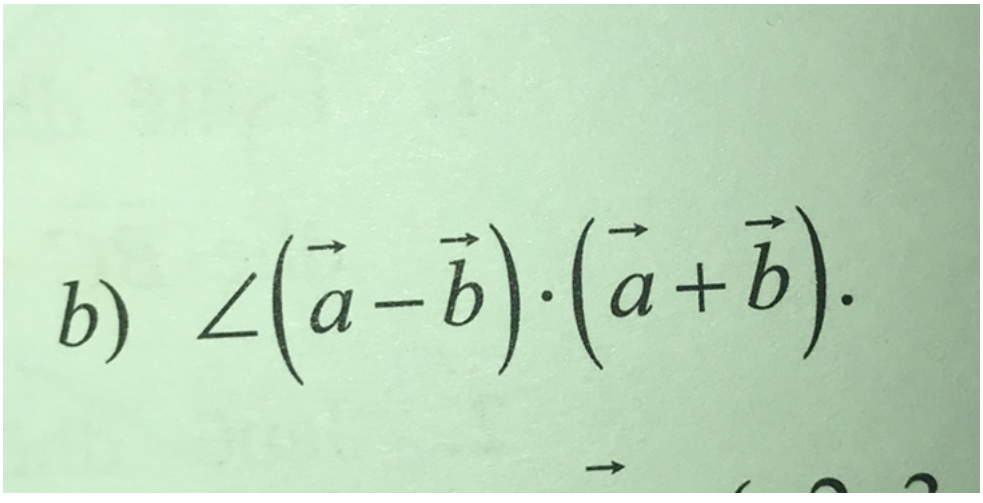
$$\vec{v} = (0, 3, -1)$$

Output latex markup:

```
\vec { v } = ( 0,3,- 1)
```

vec_printed_0.jpg

Input image:



Input options:

```
ocr: ['math']
```

Output rendered latex:

$$\angle(\vec{a} - \vec{b}) \cdot (\vec{a} + \vec{b})$$

Output latex markup:

```
\angle ( \vec { a } - \vec { b } ) \cdot ( \vec { a } + \vec { b } )
```

Output `detection_list`:

```
is_printed
```