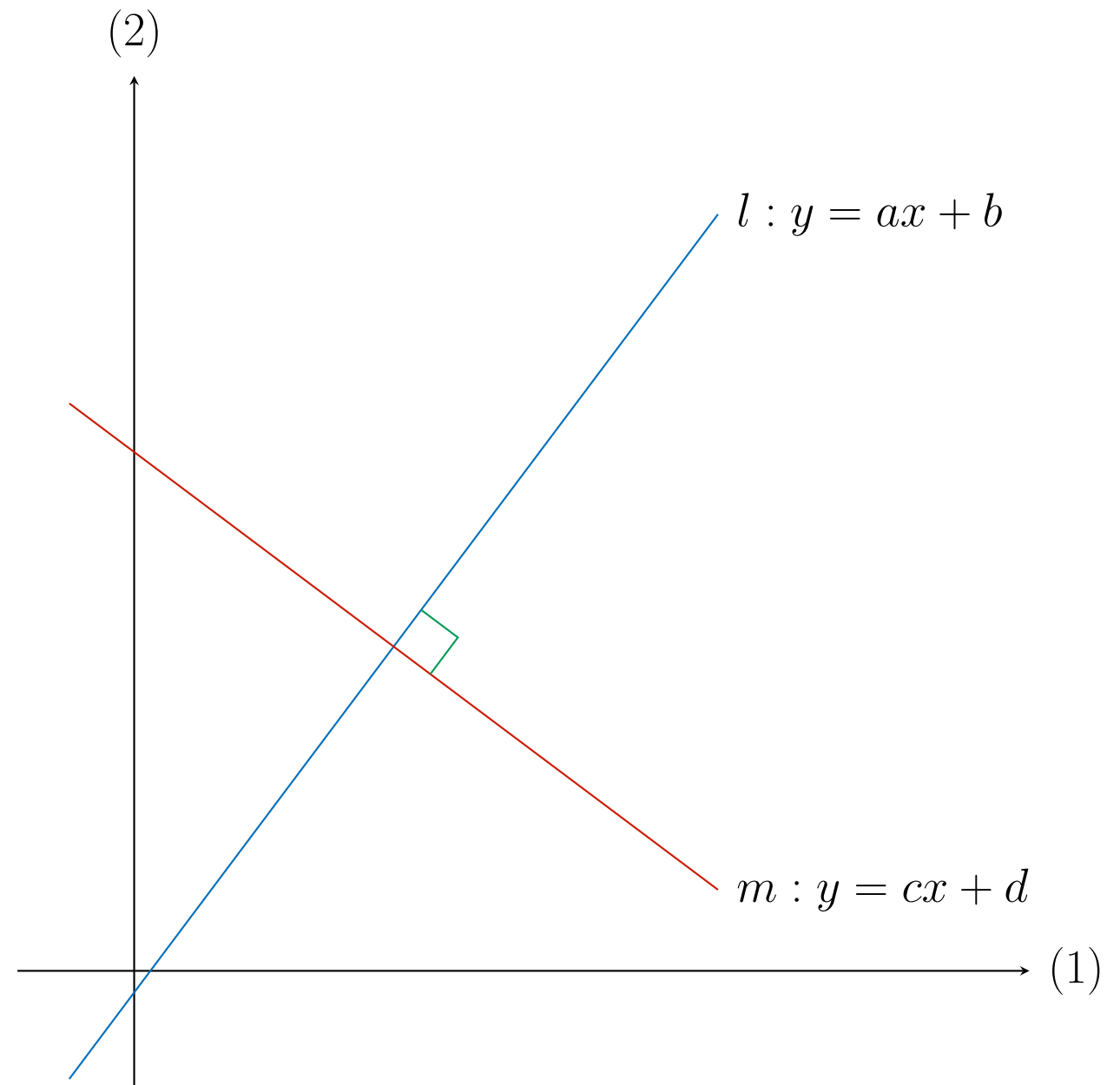


Ortogonale linjer

For to ortogonale linjer $l : y = ax + b$ og
 $m : y = cx + d$ er $a \cdot c = -1$.

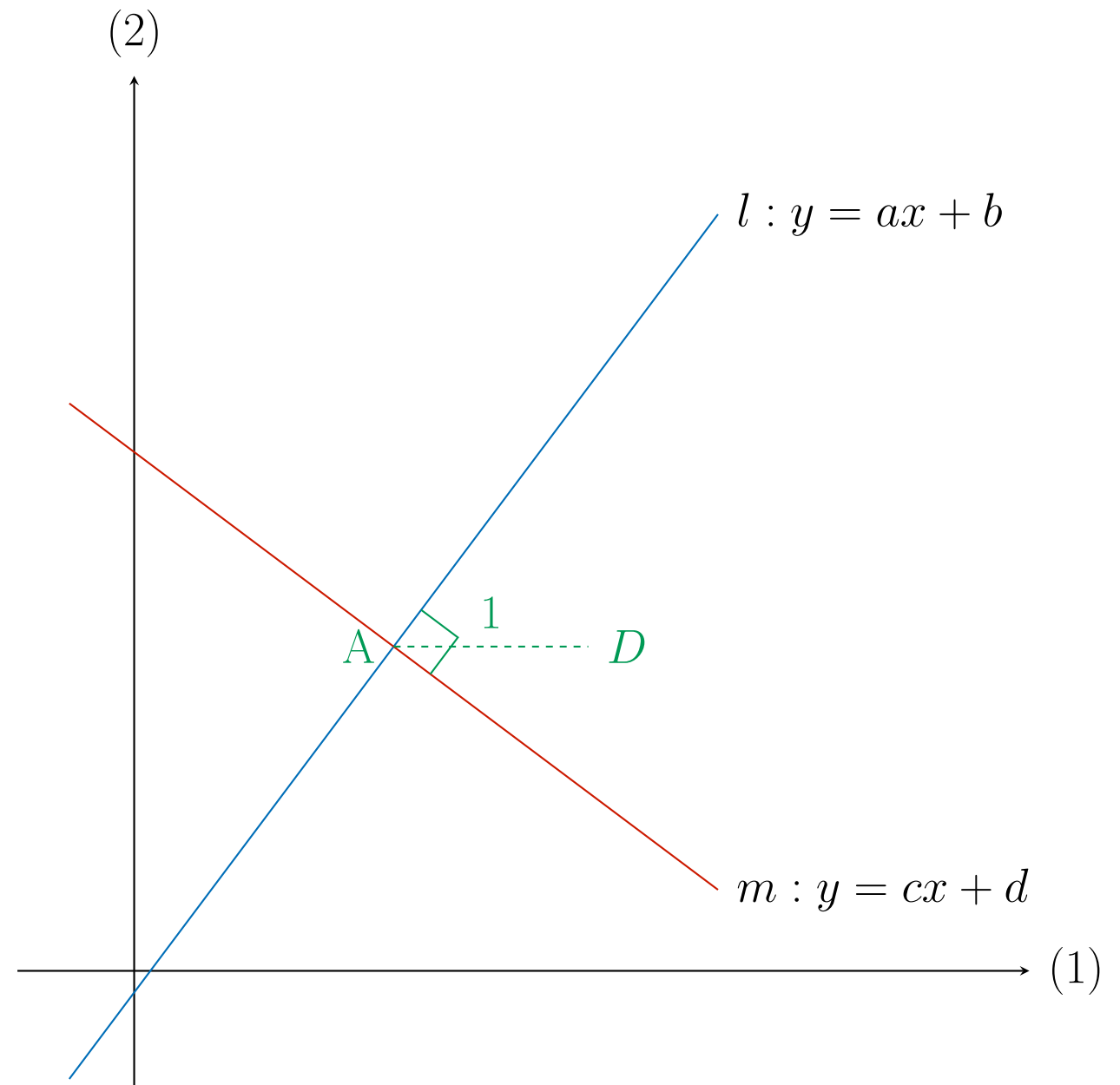
Ortogonale linjer

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Ortogonale linjer

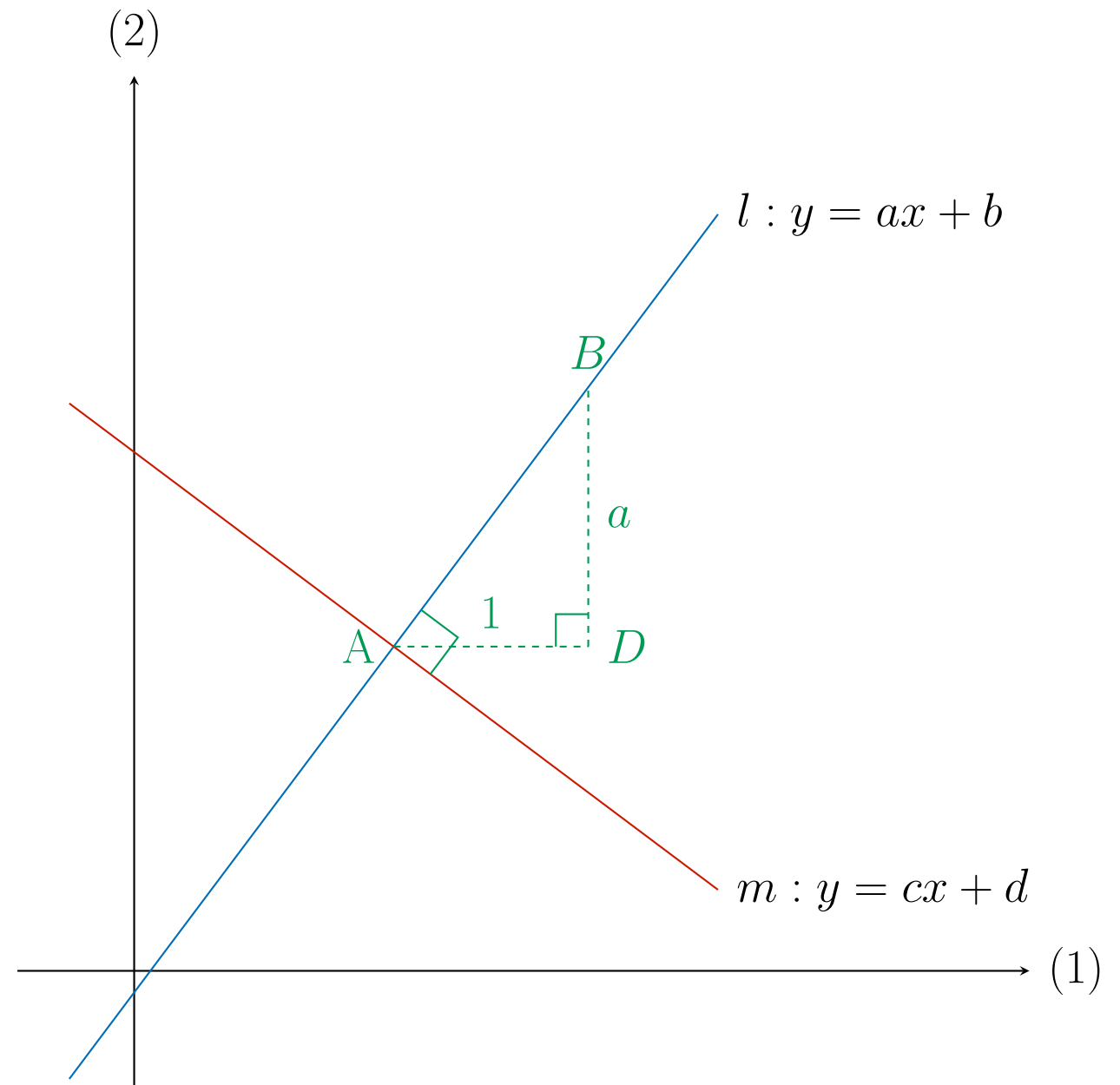
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Ortogonale linjer

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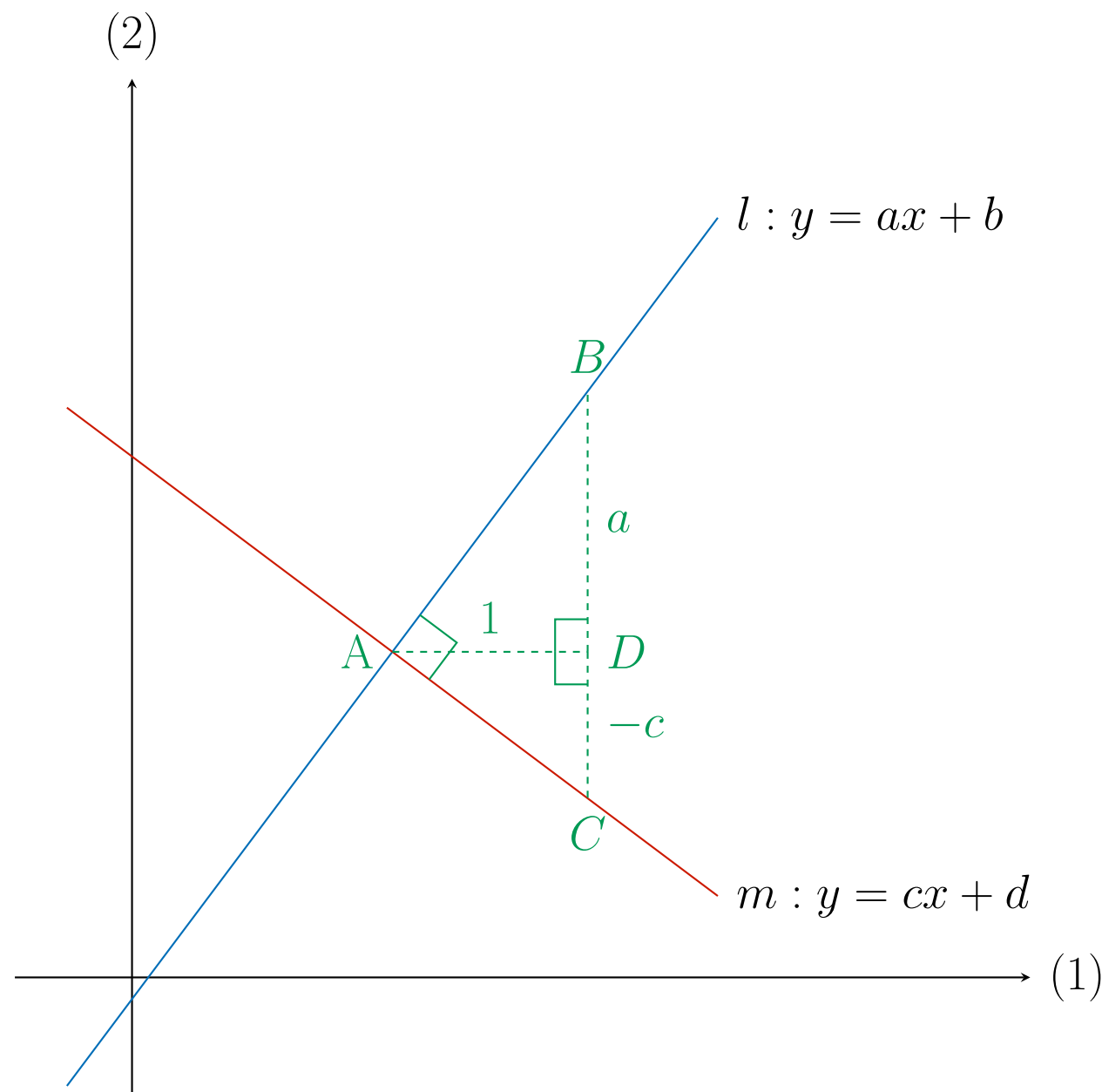
$$1^2 + a^2 = |AB|^2$$



Ortogonale linjer

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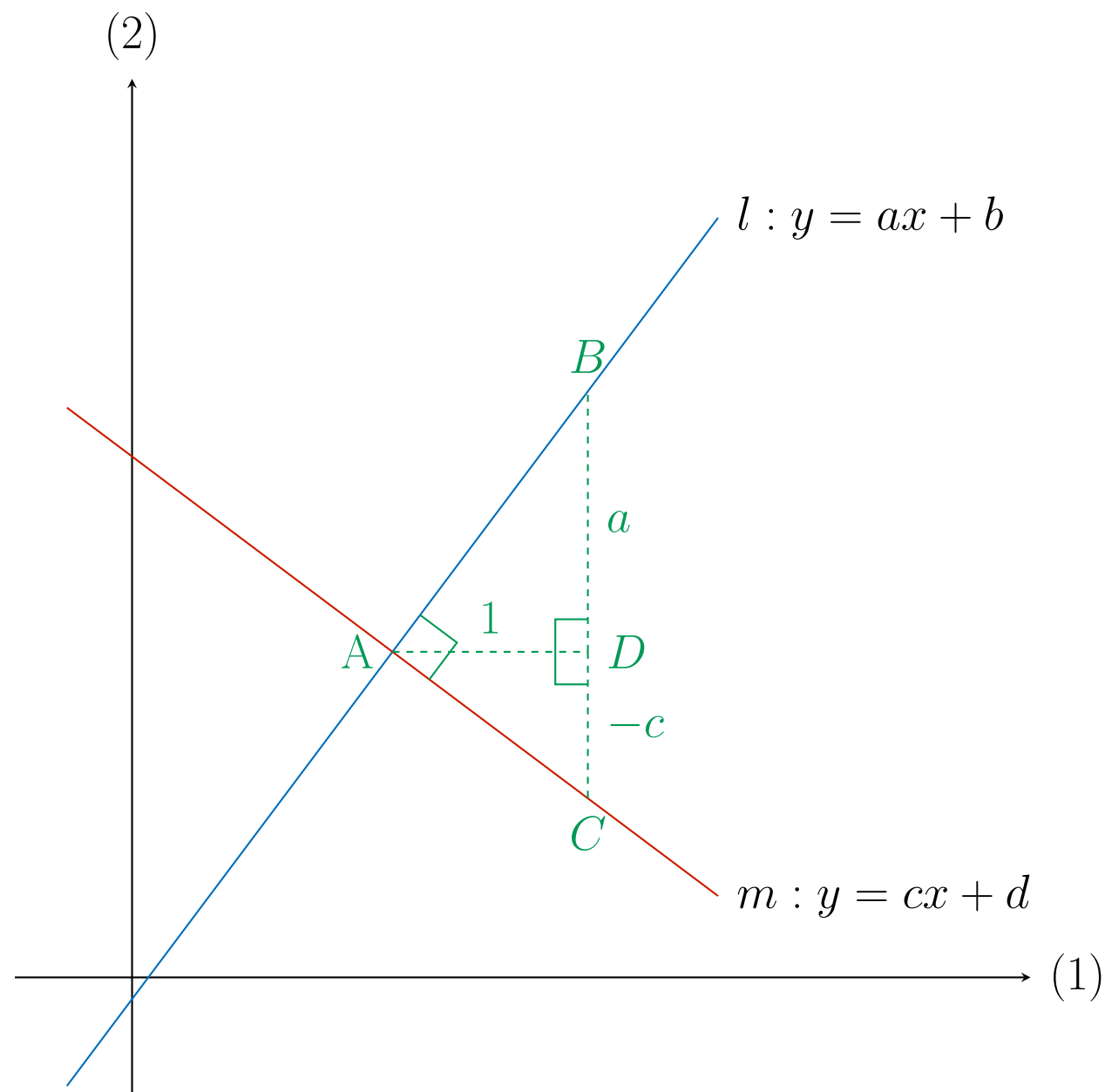
$$1^2 + a^2 = |AB|^2$$
$$1^2 + (-c)^2 = |AC|^2$$



Ortogonale linjer

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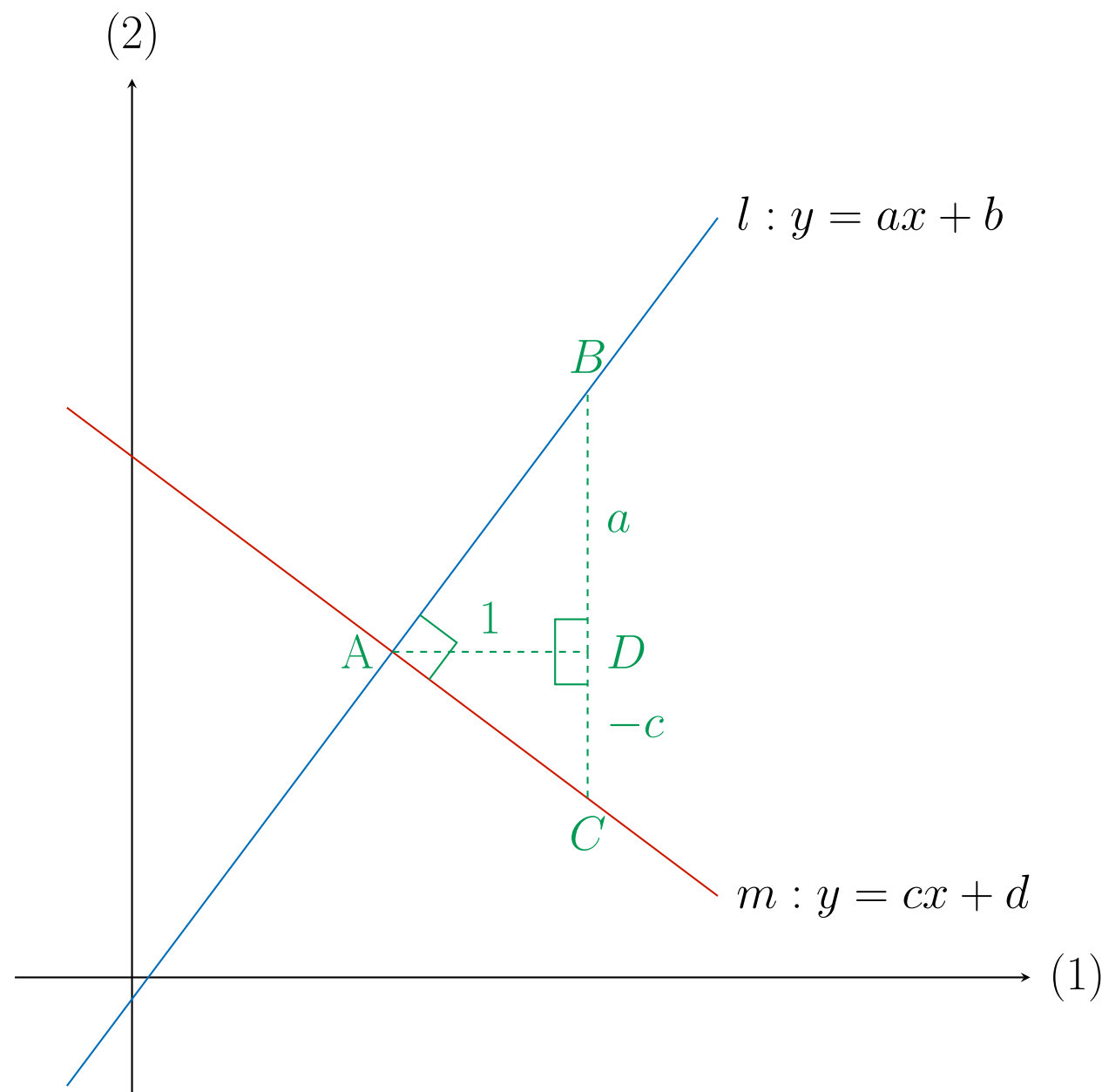
$$\begin{aligned}1^2 + a^2 &= |AB|^2 \\1^2 + (-c)^2 &= |AC|^2 \\|AB|^2 + |AC|^2 &= |BC|^2\end{aligned}$$



Ortogonale linjer

For to ortogonale linjer $l : y = ax + b$ og $m : y = cx + d$ er $a \cdot c = -1$.

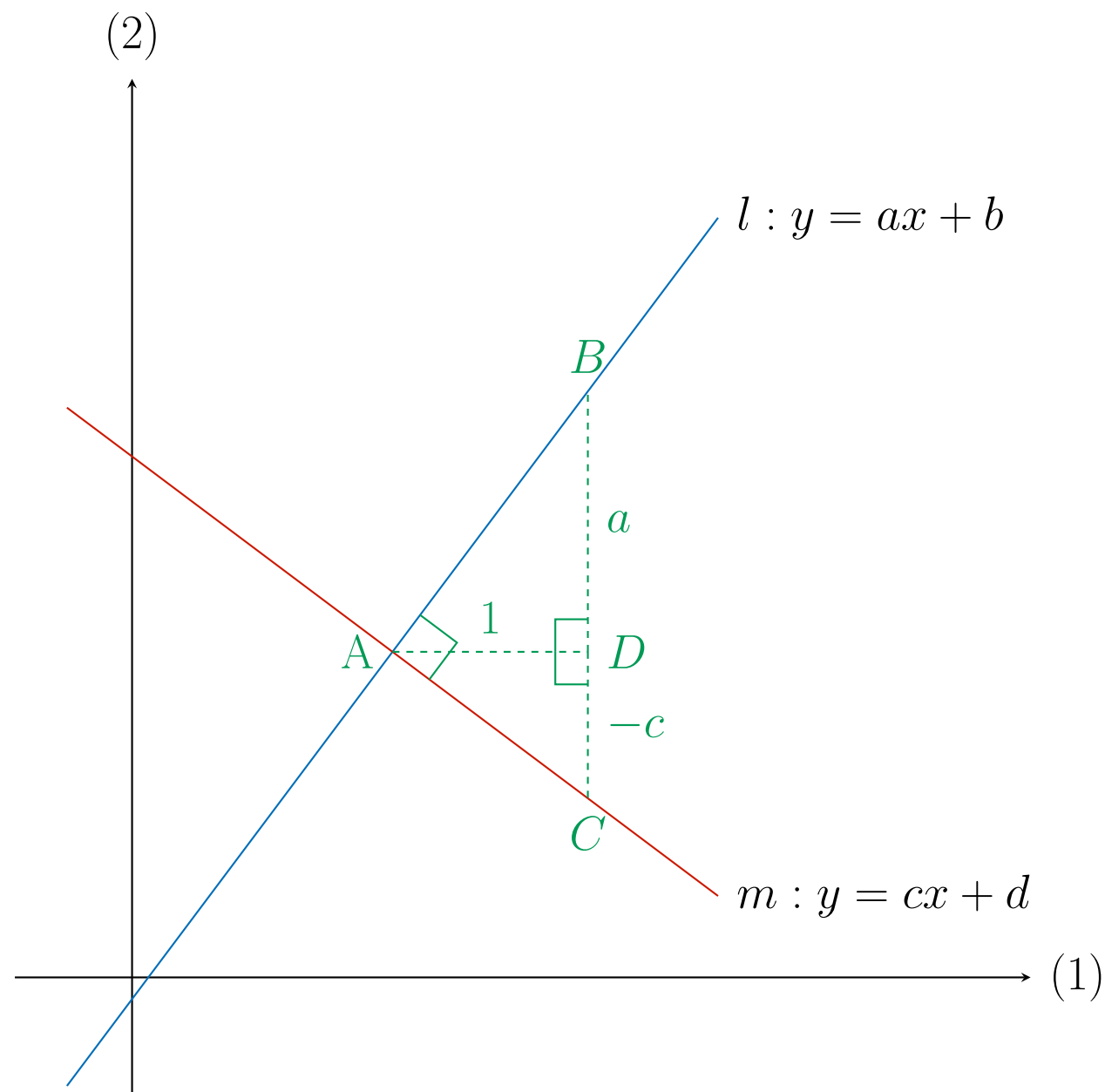
$$\begin{aligned}1^2 + a^2 &= |AB|^2 \\1^2 + (-c)^2 &= |AC|^2 \\|AB|^2 + |AC|^2 &= |BC|^2 \\a + (-c) &= |BC|\end{aligned}$$



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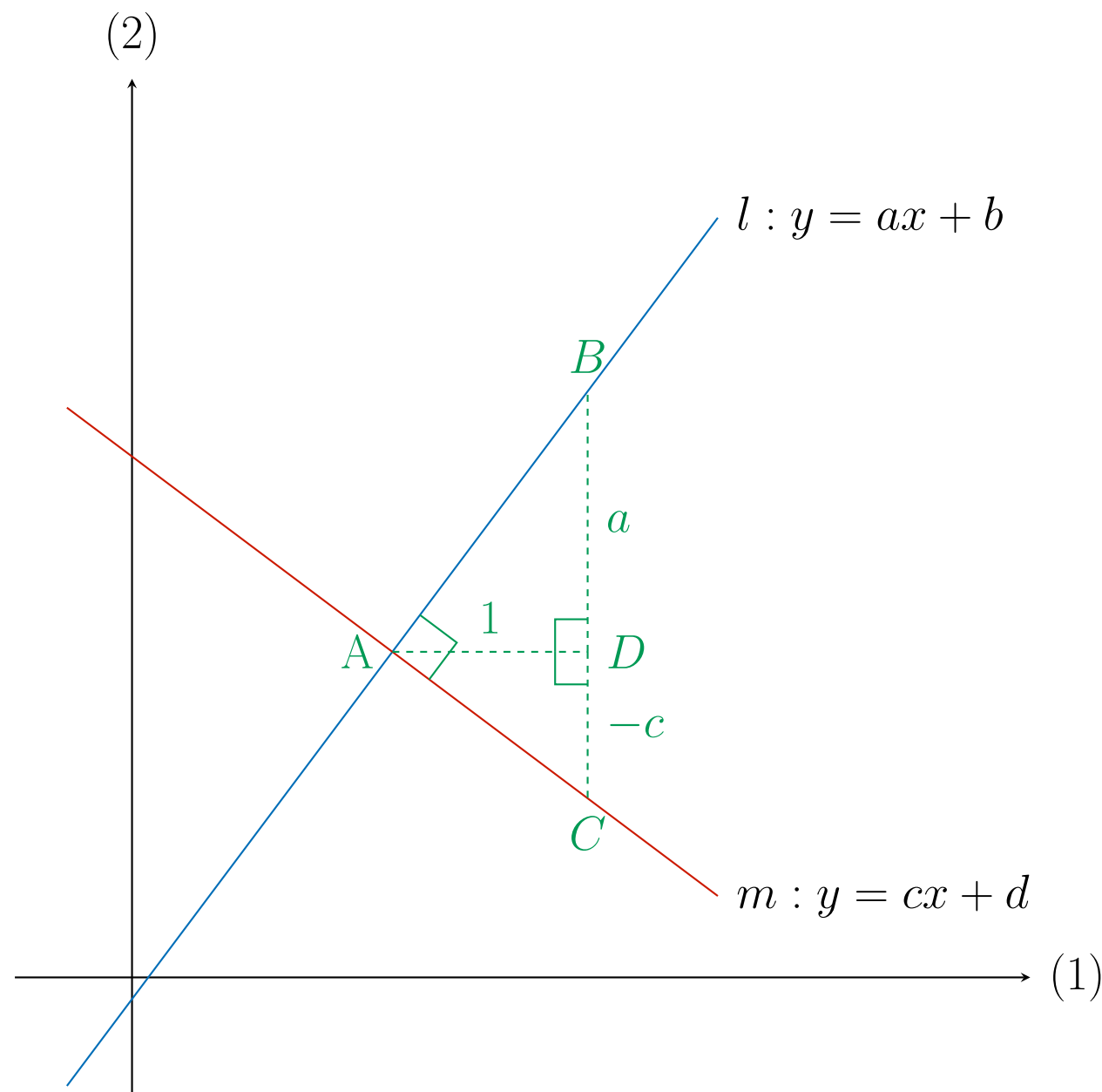


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$$1^2 + a^2$$

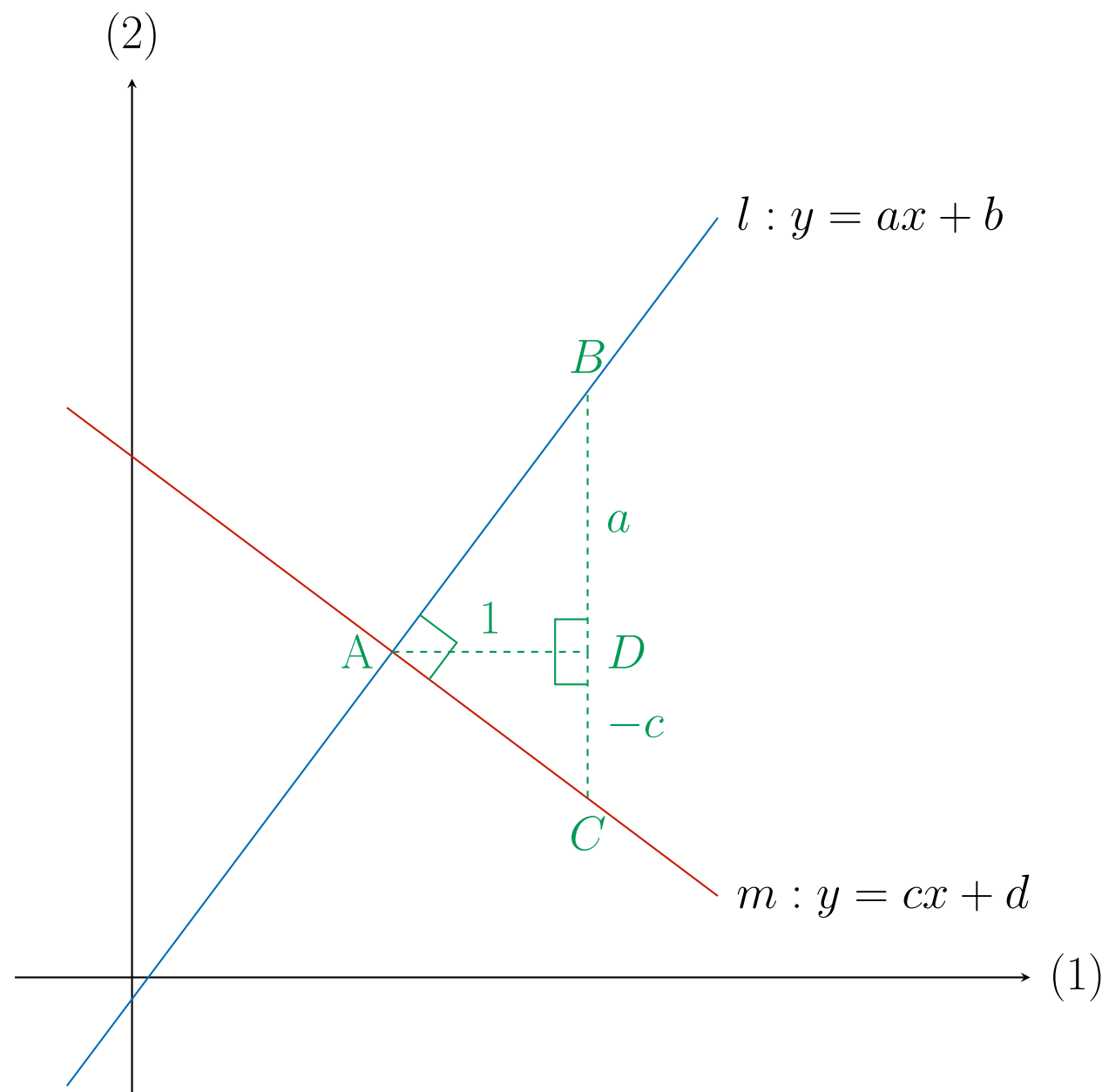


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$$1^2 + a^2 + 1^2 + (-c)^2$$

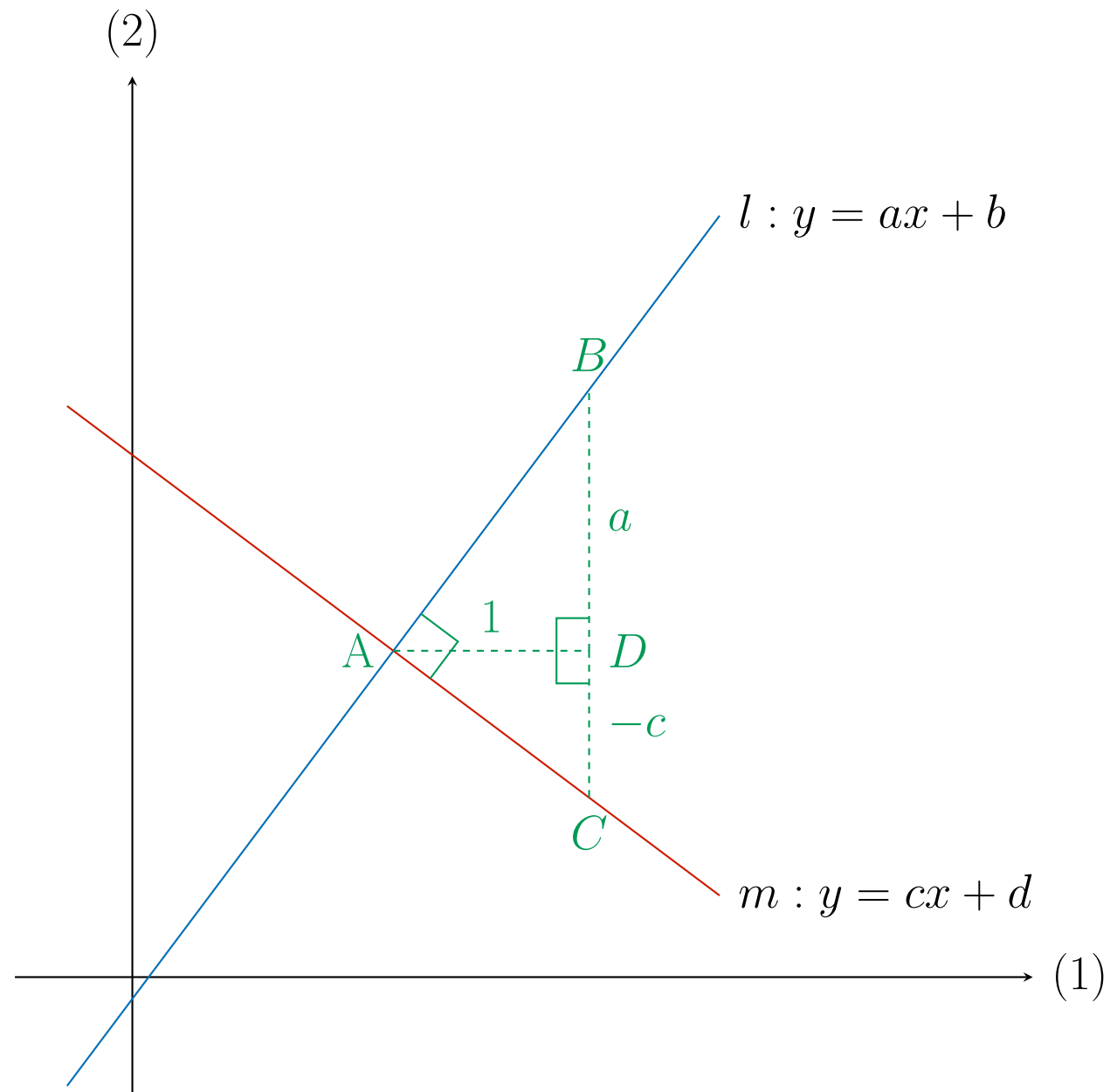


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$$1^2 + a^2 + 1^2 + (-c)^2 = (a + (-c))^2$$

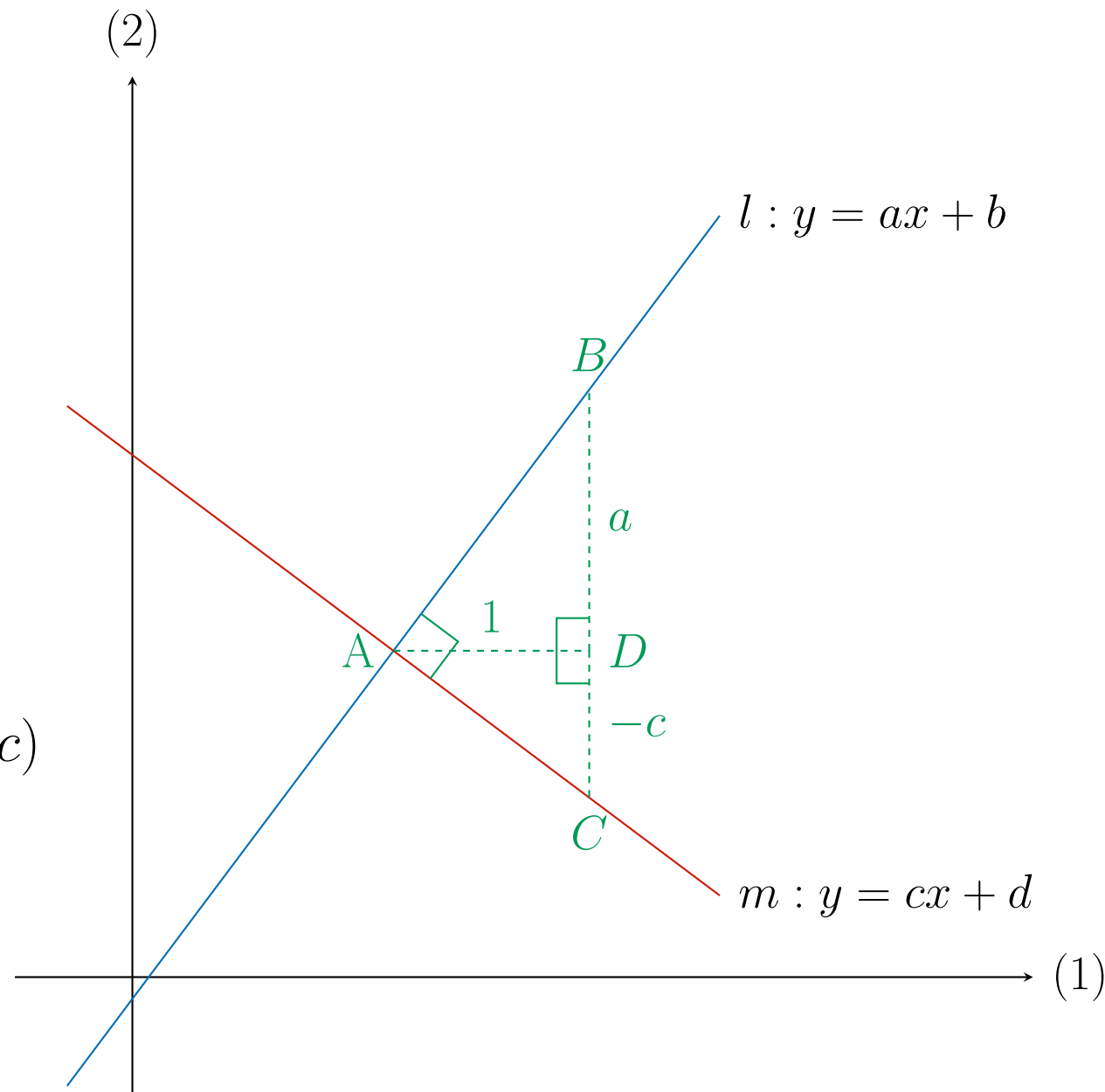


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$$\begin{aligned}1^2 + a^2 + 1^2 + (-c)^2 &= (a + (-c))^2 \\1^2 + a^2 + 1^2 + (-c)^2 &= a^2 + (-c)^2 + 2 \cdot a \cdot (-c)\end{aligned}$$

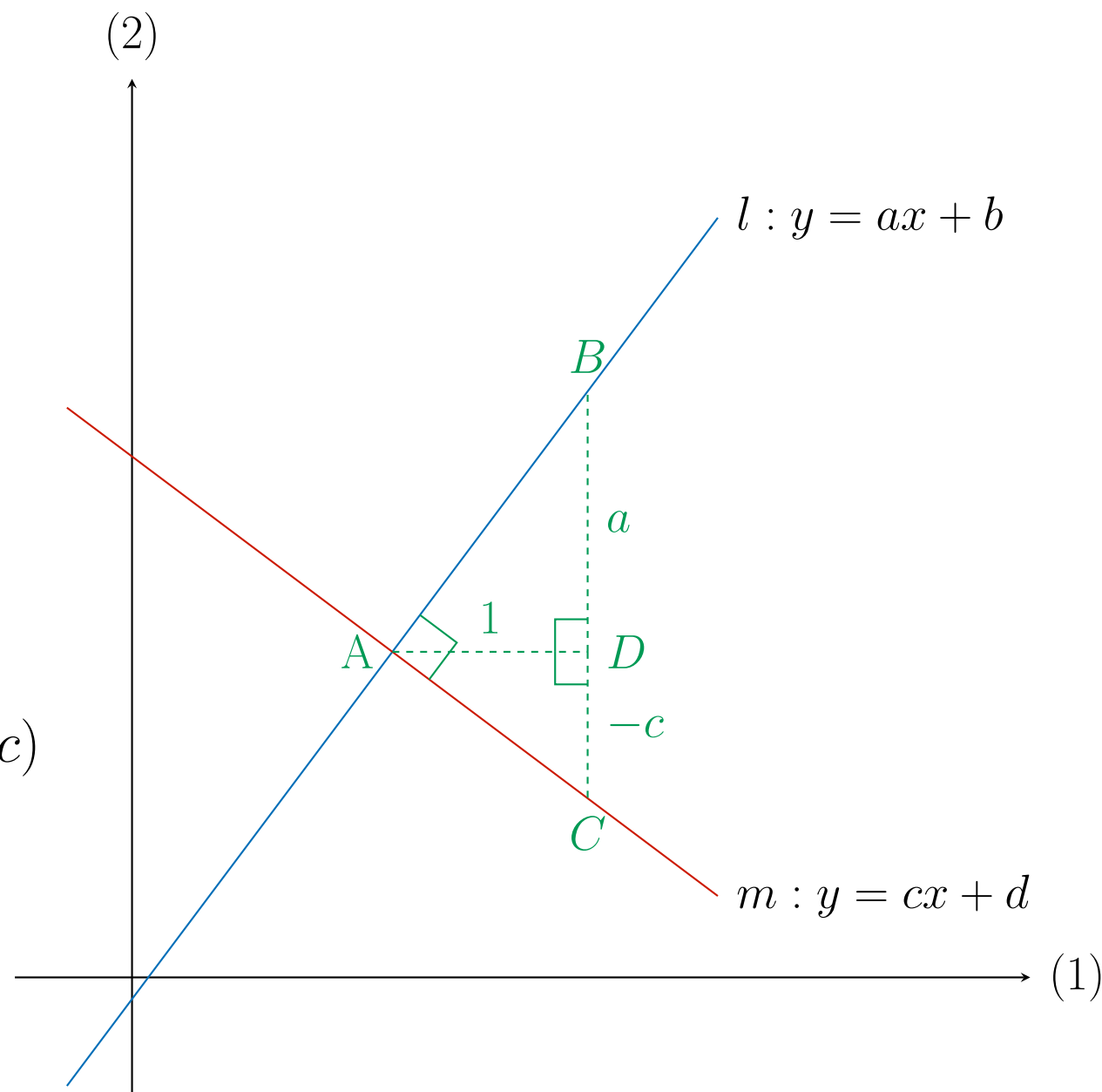


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$$\begin{aligned}1^2 + a^2 + 1^2 + (-c)^2 &= (a + (-c))^2 \\1^2 + a^2 + 1^2 + (-c)^2 &= a^2 + (-c)^2 + 2 \cdot a \cdot (-c) \\1^2 + 1^2 &= 2 \cdot a \cdot (-c)\end{aligned}$$

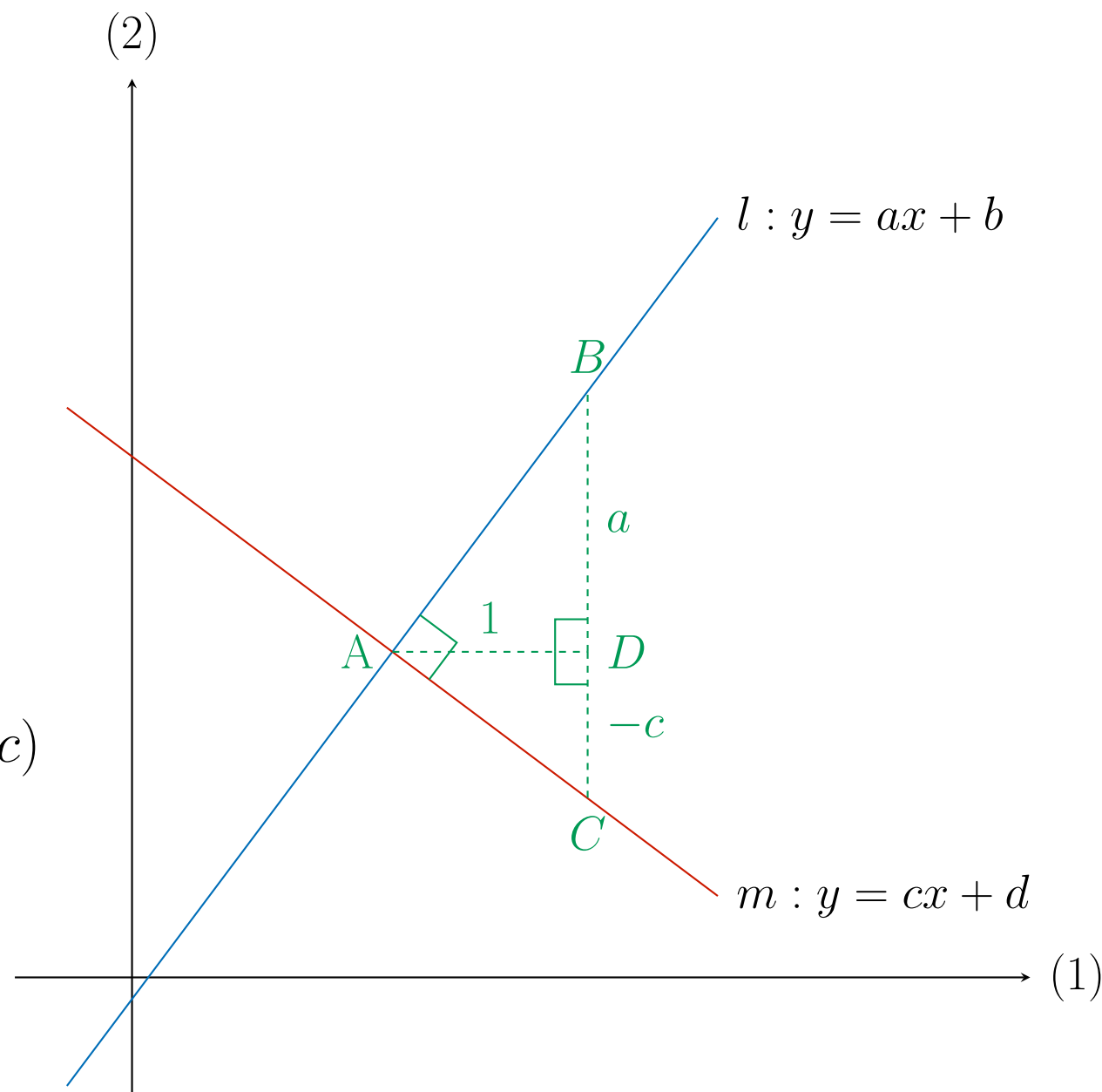


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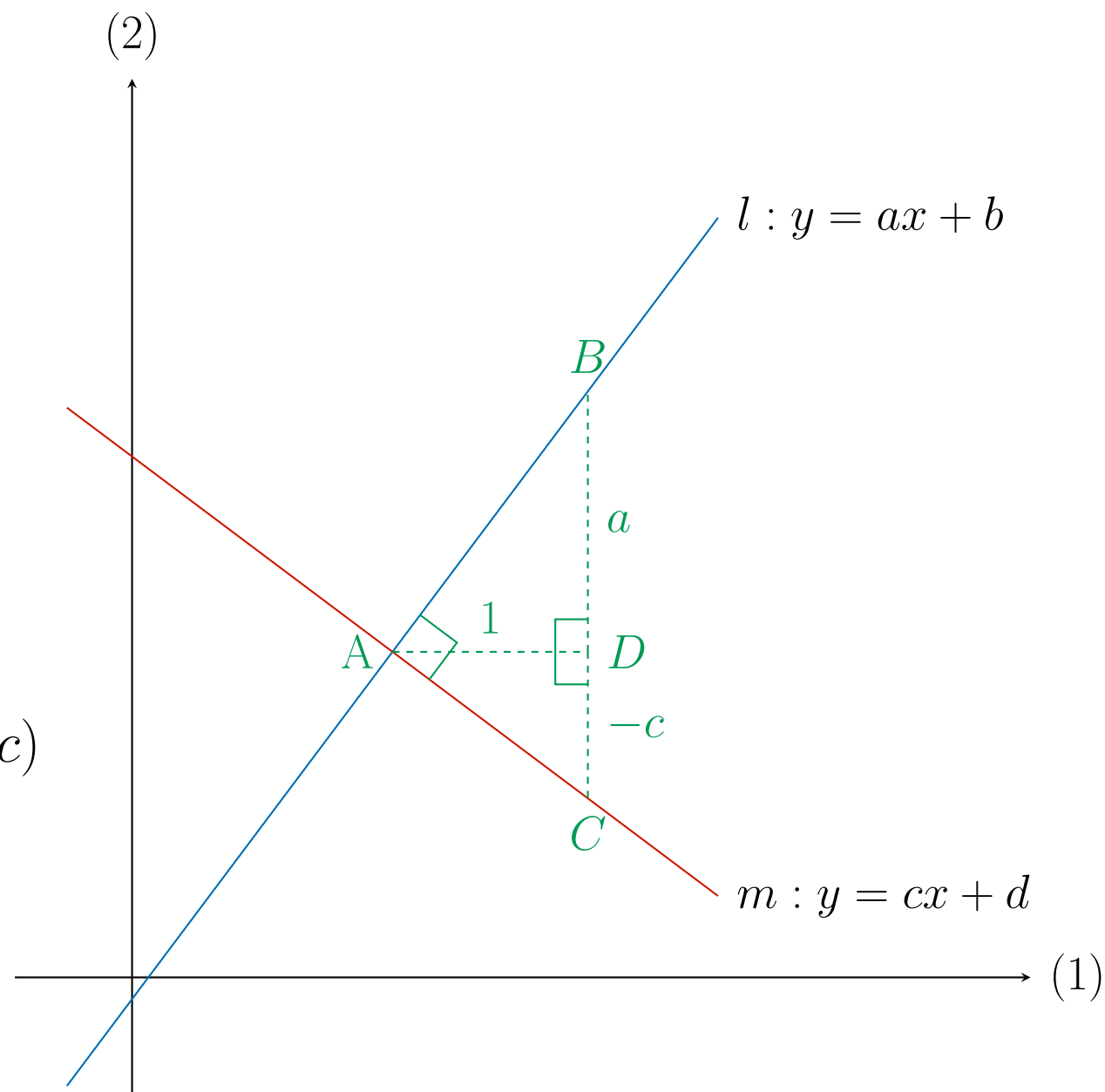


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Ortogonale linjer

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$$\begin{aligned}1^2 + a^2 + 1^2 + (-c)^2 &= (a + (-c))^2 \\1^2 + a^2 + 1^2 + (-c)^2 &= a^2 + (-c)^2 + 2 \cdot a \cdot (-c) \\1^2 + 1^2 &= 2 \cdot a \cdot (-c) \\2 &= 2 \cdot a \cdot (-c) \\1 &= a \cdot (-c) \\-1 &= a \cdot c\end{aligned}$$

