

(1) Los op vir  $x$ :

(a)  $\frac{1}{2}(x + 3) = \frac{1}{3}(x - 1)$

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(b)  $-4 < \frac{-2(x + 1)}{3} \leq 6$

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(c)  $\frac{3}{2x - 1} - \frac{4}{3 - x} = \frac{7}{2x^2 - 7x + 3}$

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(d)  $(x^{\frac{3}{4}} - 8)(9^{x-1} - 27) = 0$

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(e)  $(3x + 4)^2 = 25$

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(f)  $2 - (x - 2)(x + 2) = 4 - x^2$

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(g)  $(x - 5)^2(x + 2) \leq 0$

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(h)  $-3(2x - 1)(5 - x)(x + 0,5)^2 = 0$

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(i)  $x^{\frac{1}{2}} + 2x^{\frac{1}{4}} - 24 = 0$

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(j)  $(x - p)^2 = (2x + q)^2$

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(4) Bepaal  $\frac{x}{y}$  as  $20x^2 - xy - 12y^2 = 0$

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(5) Bereken  $p$  en  $q$  as:  $(2p - 3)^2 + (q + 6)^2 = 0$

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(6) Twee trein vertrek 270 km van mekaar af.  
Na 3 ure ry hulle by mekaar verby.  
Bereken elke trein se spoed as die twee  
treine se spoed met 4 km/h verskil.

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