MATHEMATICS

Topic: ALGEBRA, EQUATIONS, AND INEQUALITIES GRADE 10

CAPS ALIGNED

FACTORISE



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Factorise - GRADE 10 Exercises - A



QUESTION 1

- 1.1 Factorise the following expressions fully:
 - 1.1.1 $x^4 81$
 - 1.1.2 $6x^2y 10xy + 15x 25$

a-12 1.1.1 24-81 =(a-b)(a+b) $(\chi^2)^2 - 9^2$ $-(\chi^2 - q\chi\chi^2 + q)$ $=(\chi - 3)(\chi + 3)(\chi^{2} + 9)$ 1.1.2 672-1-1074+1576-25 $=(6x^{2}-10x^{2})+(15x-25)$ $= 2\chi + (3\chi - 5) + 5(3\chi - 5)$ -(3x-5)(2x+5)



Factorise - GRADE 10 Exercises - B

1.1.1 x2-x $=\chi(\chi - I)$ 1.1.2 322+3px(-2mx-2mp $=(3\chi^{2}+3p\chi)+(-2m\chi-2mp)$ = 32(x+p) - 2m(x+p) $= (\chi + \beta)(3\chi - 2m)$ $1.1.3 2p^2 - 2p - 12$ $= 2(p^2 - p - 6)$ $= 2(\dot{P} + 2)(\dot{P} - 3)$

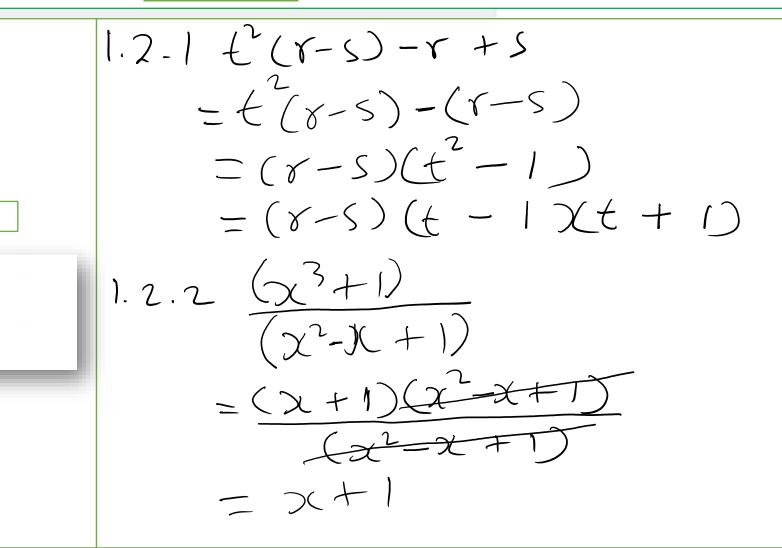
DBE/NOVEMBER 2016

QUESTION 1

1.1	Factorise the following expressions fully:	
	1.1.1	$x^2 - x$
	1.1.2	$3x^2 + 3px - 2mx - 2mp$
	1.1.3	$2p^2 - 2p - 12$







 DBE/NOVEMBER 2017

 Factorise the following expressions fully:

 1.2.1
 $t^2(r-s)-r+s$

1.2.2 $\frac{x^3+1}{x^2-x+1}$

1.2



Factorise - GRADE 10 Exercises - D

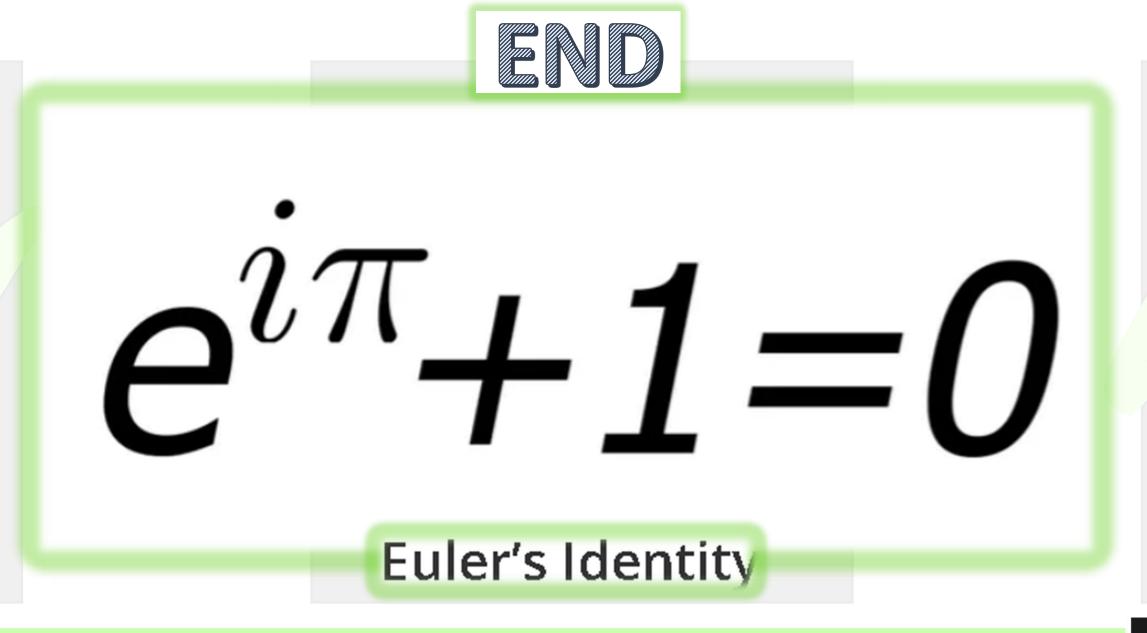
DBE/NOVEMBER 2018

QUESTION 1

- 1.1 Factorise the following expressions fully:
 - 1.1.1 $4x x^3$
 - 1.1.2 $x^2 + 15x 54$
 - 1.1.3 y xy + x 1

1.1.14,1-23 $= x(4-x^{2})$ = x(2-x)(2+2) 1.1.2 22+152-54 -(x+18)(x-3)1-1.3 -1 -22-1 +22-1 = (-1 - 2 - 1) + (2 - 1) $= \gamma (1 - \gamma) + (\gamma (- 1))$ = -7(2(-1) + (2(-1))) $= (\gamma(-1)(-7+1))$ = -(2(-1)(-1))









- 1. FET CAPS DOCUMENT
- 2. GRADE 10 EXAMINATION GUIDELINES
- *3. GRADE 10 DBE/NOVEMBER 2015 2018*

