#### SYDNEY TECHNICAL HIGH SCHOOL



# HIGHER SCHOOL CERTIFICATE ASSESSMENT TASK 3

### **JUNE 2016**

## **Mathematics Extension 2**

#### **General Instuctions**

- Working time 90 minutes
- Write using black pen only
- Board-approved calculators may be used
- All necessary working should be shown in questions 6 to 9
- Start each question on a new page
- A Board of Studies reference sheet is provided

Total marks - 60

Section 1 - 5 marks

Attempt Questions 1-5. Allow about 8 minutes for this section.

Section 2 - 55 marks

Attempt Questions 6-9. Allow about 82 minutes for this section.

Name	:	 
acher		

#### Section 1 (5 marks)

#### Attempt Questions 1-5

Use the multiple-choice answer sheet in your answer booklet for Questions 1-5. Do not remove the multiple-choice answer sheet from your answer booklet.

- 1. Which of the following is equivalent  $\int x \sec^2(x^2) dx$ ?
  - (A)  $2 \tan(x^2) + c$
  - (B)  $\frac{1}{2}\tan(x^2) + c$
  - (C)  $\frac{1}{6} sec^3(x^2) + c$
  - (D)  $\frac{1}{3} sec^3(x^2) + c$
- 2. What is the multiplicity of the root x = -1 of the equation

$$3x^5 - 5x^4 - 35x - 27 = 0 ?$$

- (A) 1
- (B) 2
- (C) 3
- (D) 4
- 3. If  $y = \cos^{-1}(e^x)$  then  $\frac{dy}{dx}$  equals
  - (A) -cosec y
  - (B)  $-\tan y$
  - (C)  $-\cot y$
  - (D)  $-\sec y$

4. The equation  $2x^3 - 7x + 1 = 0$  has roots  $\alpha$ ,  $\beta$  and  $\gamma$ .

What is the value of  $\alpha^3 + \beta^3 + \gamma^3$ ?

- (A) 0
- (B)  $\frac{43}{4}$
- (C)  $-\frac{1}{2}$
- (D)  $-\frac{3}{2}$
- 5. Which integral has the smallest value?
  - (A)  $\int_0^{\frac{\pi}{4}} \sin^2 x \, dx$
  - (B)  $\int_0^{\frac{\pi}{4}} \cos^2 x \ dx$
  - (C)  $\int_0^{\frac{\pi}{4}} \sin x \cos x \, dx$
  - (D)  $\int_0^{\frac{\pi}{4}} \sin x \, \tan x \, dx$

#### Section 2 (55 marks)

Attempt Questions 6-9Start each question on a new page

#### Question 6 (14 marks)

a) Find 
$$\int \frac{dx}{\sqrt{6x-x^2}}$$
 2

b) Evaluate 
$$\int_0^{\sqrt{3}} \frac{x^3}{(1+x^2)^{\frac{3}{2}}} dx$$
 using the substitution  $u = 1 + x^2$ 

c) Use integration by parts to evaluate 
$$\int_{1}^{e} \frac{\ln x}{\sqrt{x}} dx$$
 3

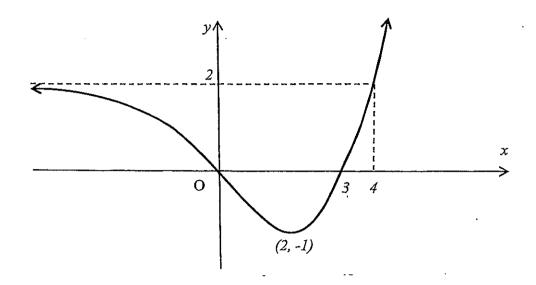
d) If 
$$\alpha$$
,  $\beta$  and  $\gamma$  are the roots of the equation  $x^3 - 5x - 3 = 0$ 

find the monic polynomial equation whose roots are  $\frac{\alpha}{\beta \gamma}$ ,  $\frac{\beta}{\alpha \gamma}$  and  $\frac{\gamma}{\alpha \beta}$ 

e) Find the real values of a and b given that 
$$3 + i$$
 is a root
of the equation  $z^3 + az^2 + bz + 10 = 0$ 

#### Question 7 (13 marks) (Start a new page)

a) The diagram below shows the graph of y = f(x).



Draw neat sketches, on separate diagrams, of the following;

$$i) \quad y = f(-x)$$

$$ii) \quad y = \frac{1}{f(x)}$$

iii) 
$$y = [f(x)]^3$$

b) Use the substitution 
$$t = tan \frac{\theta}{2}$$
 to find  $\int \frac{\tan \theta}{1 + \cos \theta} d\theta$ 

c) For what values of 
$$k$$
 does the equation  $x^3 - 3x^2 - 24x + k = 0$  have exactly one real root?

#### Question 8 (14 marks) (start a new page)

a) Without the use of calculus, sketch the curve 
$$y^2 = x^2(4 - x^2)$$

b) Find 
$$\int \frac{x+6}{x^2+4x+29} dx$$
 4

2

3

c) If the polynomial 
$$ax^{n+1} + bx^n + 1$$
 is divisible by  $(x-1)^2$ ,
find expressions for  $a$  and  $b$  in terms of  $n$ .

d) i) If 
$$I_n = \int_0^1 x^n e^{x^2} dx$$
 show that  $I_n = \frac{e}{2} - \left(\frac{n-1}{2}\right) I_{n-2}$ 

ii) Evaluate 
$$\int_0^1 x^5 e^{x^2} dx$$
 2

#### Question 9 (14 marks) (start a new page)

a) Use partial fractions to find 
$$\int \frac{x-3}{x^2+6x+5} dx$$

b) Find 
$$\int \cos^5 x \, dx$$

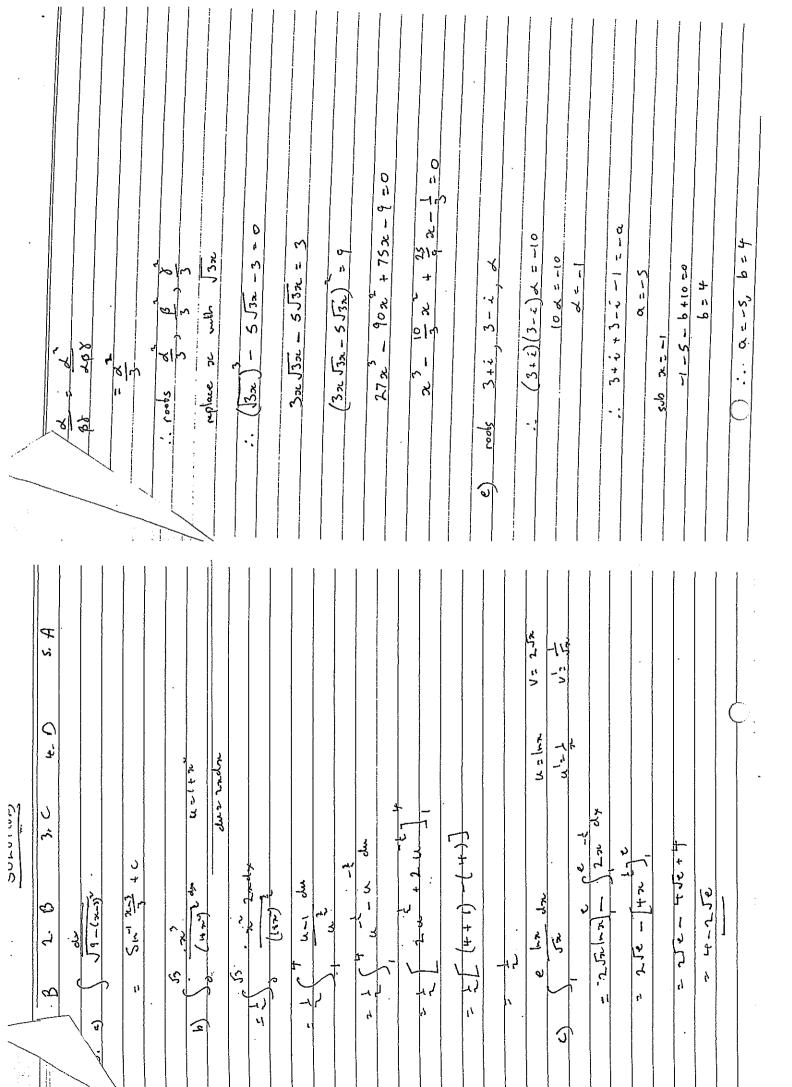
c) i) Solve 
$$z^5 - 1 = 0$$
 over the complex field.

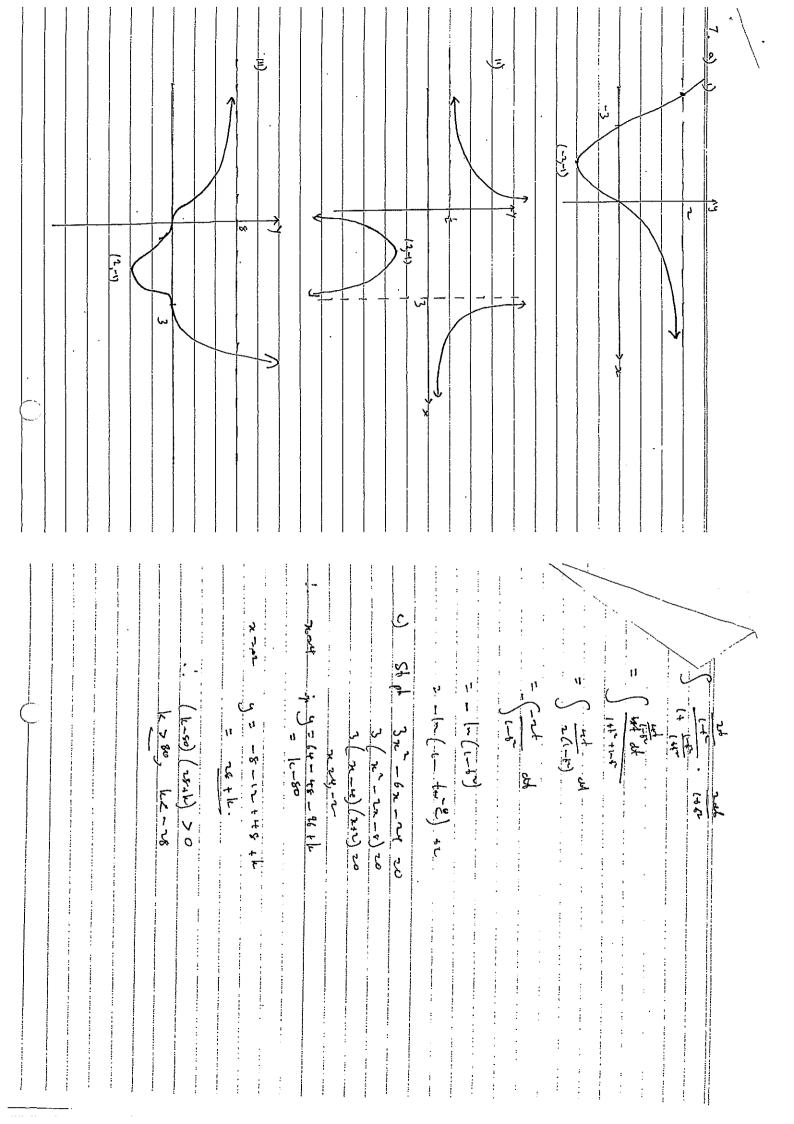
ii) Considering the sum of the roots found in part i), or otherwise, determine the exact value of 
$$\cos\frac{2\pi}{5}$$
.

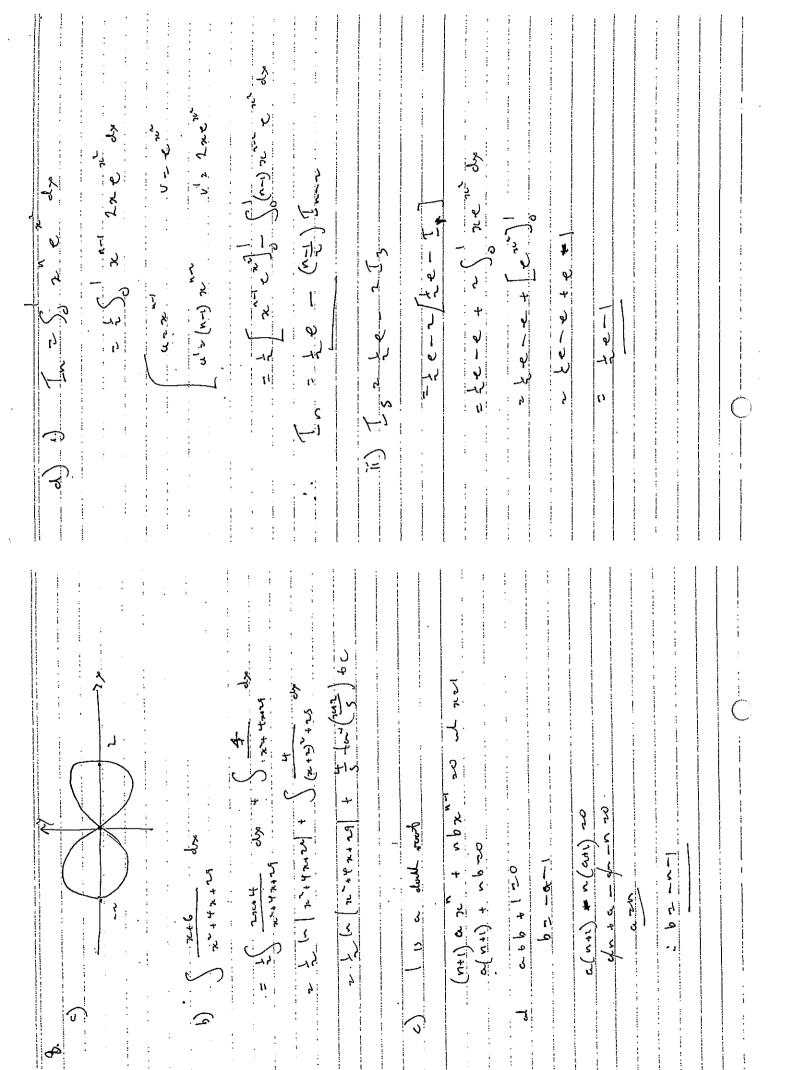
d) The equation 
$$x^3 + ax^2 + bx + c = 0$$
has one root equal to the sum of the other two roots.

Show that  $a^3 - 4ab + 8c = 0$ .

#### **End of Paper**







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$\begin{array}{cccccccccccccccccccccccccccccccccccc$	$\frac{(2+3)(2+1)}{(2+3)(2+1)} = \frac{2+3}{(2+3)} = $
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$(2+5)(2+1) \qquad 2+5 \qquad 2+1$ $(2+5)(2+1) \qquad 2+5 \qquad 2+1$ $(2+5)(2+1) \qquad 2+5 \qquad 2+1$ $(3+3)(2+5) = 2+3$ $(4+3) + 6(2+5) = 2-3$ $(4+3) + 6(2+5) = 2-3$ $(4+3) + 6(2+5) = 2-3$ $(4+3) + 6(2+5) = 2-1$ $(4+3) + 6(2+5) = 2$	$\frac{(2+5)(2+4)}{(2+5)(2+4)} = 2+3$ $\frac{(4+3)(2+4)}{(2+5)(2+4)} = 2+3$ $\frac{(4+3)(2+4)}{(2+5)(2+4)} = 2+3$ $\frac{(4+3)(2+4)}{(2+5)(2+4)} = 2+3$ $\frac{(4+3)(2+4)}{(2+3)(2+4)} = 2+3$ $\frac{(4+3)(2+4)}{(2+3)(2+4)(2+4)} = 2+3$ $\frac{(4+3)(2+4)}{(2+3)(2+4)(2+4)(2+4)} = 2+3$ $\frac{(4+3)(2+4)}{(2+3)(2+4)(2+4)(2+4)(2+4)} = 2+3$ $\frac{(4+3)(2+4)}{(2+3)(2+4)(2+4)(2+4)(2+4)} = 2+3$ $\frac{(4+3)(2+4)}{(2+3)(2+4)(2+4)(2+4)(2+4)(2+4)(2+4)} = 2+3$ $\frac{(4+3)(2+4)}{(2+3)(2+4)(2+4)(2+4)(2+4)(2+4)(2+4)(2+4)(2+4$
$(2+5)(2+4) \qquad 2+5 \qquad 2+1 \qquad (1) \qquad (2+3)(2+4) \qquad 2+5 \qquad (2+3)(2+4) \qquad (2+3)$	$\frac{(2+5)(2+1)}{(2+5)(2+1)} = \frac{2+1}{(2+1)+1} + \frac{3+1}{(2+1)+2} + \frac{3+1}{(2+1)+3} = 0$ $\frac{(2+5)(2+1)}{(2+1)+1} + \frac{3+1}{(2+1)+1} + \frac{3+1}{(2+1)+3} = 0$ $\frac{(2+5)(2+1)}{(2+1)+1} + \frac{3+1}{(2+1)+1} + \frac{3+1}{(2+1)+1} + \frac{3+1}{(2+1)+1} + \frac{3+1}{(2+1)+1} + \frac{3+1}{(2+1)+1} = 0$ $\frac{(2+5)(2+1)}{(2+1)+1} + \frac{3+1}{(2+1)+1} + 3$
$(2+5)(2+1) \qquad 2+5 \qquad 2+1 \qquad (1) \qquad (2+5)(2+1) \qquad 2+5 \qquad (2+5)(2+1) \qquad (2+5)$	$\frac{(2+5)(2+4)}{(2+5)(2+4)} = 2+1$ $\frac{(2+5)(2+4)}{(2+5)(2+5)(2+5)(2+2)} = 2+1$ $\frac{(2+5)(2+4)}{(2+5)(2+5)(2+2)(2+2)} = 2+1$ $\frac{(2+5)(2+4)}{(2+5)(2+5)(2+2)(2+2)} = 2+1$ $\frac{(2+5)(2+4)}{(2+5)(2+5)(2+2)(2+2)} = 2+1$ $\frac{(2+5)(2+4)}{(2+5)(2+5)(2+2)(2+2)} = 2+1$ $\frac{(2+5)(2+4)}{(2+5)(2+2)(2+2)(2+2)} = 2+1$ $\frac{(2+5)(2+4)(2+2)(2+2)(2+2)}{(2+5)(2+2)(2+2)(2+2)} = 2+1$ $\frac{(2+5)(2+4)(2+2)(2+2)(2+2)(2+2)}{(2+5)(2+2)(2+2)(2+2)} = 2+1$ $(2+5)(2+2)(2+2)(2+2)(2+2)(2+2)(2+2)(2+2)$
$(2+5)(2+1) \qquad 2+5 \qquad 2+1$ $(2+5)(2+1) \qquad 2+5 \qquad 2+1$ $(2+5)(2+1) \qquad 2+5 \qquad 2+1$ $(2+5)(2+1) \qquad 3+3+3+3+3+3+3+3=0$ $(2+5)(2+1) \qquad 3+3+3+3+3+3+3=0$ $(2+5)(2+1) \qquad 3+3+3+3+3+3+3=0$ $(2+5)(2+1) \qquad 3+3+3+3+3+3+3=0$ $(2+5)(2+1) \qquad 3+3+3+3+3+3+3=0$ $(2+5)(2+1) \qquad 3+3+3+3+3+3+3+3=0$ $(2+5)(2+1) \qquad 3+3+3+3+3+3+3+3=0$ $(2+5)(2+1) \qquad 3+3+3+3+3+3+3+3+3=0$ $(2+5)(2+1) \qquad 3+3+3+3+3+3+3+3+3+3+3+3+3+3+3+3+3+3+3$	$\frac{(2+5)(2+1)}{(2+5)(2+1)} = \frac{2+5}{(2+5)} = $
$(2+5)(2+1) \qquad 2+5 \qquad 2+1$ $(2+5)(2+1) \qquad 2+5 \qquad 2+1$ $(3+3)(2+1) \qquad 2+5 \qquad 2+1$ $(3+3)(2+1) \qquad 3+3+3+3+3+3+3=0$ $(3+3)(2+1) \qquad 6(2+5) = 2-3$ $(3+3)(2+5) = 2-1$ $(3+3)(2+5)$	$\frac{(2+5)(2+1)}{(2+5)(2+1)} = \frac{2+5}{(2+5)} = $
$\frac{(2+3)(2+1)}{(2+3)(2+1)} = 2+3$ $\frac{(2+3)(2+1)}{(2+3)(2+1)} = \frac{(2+3)(2+1)}{(2+3)(2+1)} = \frac{(2+3)(2+1)}{(2+3)(2+$	$\frac{(2+5)(2+1)}{(2+5)(2+1)} = \frac{2+5}{(2+5)} = $
$\frac{(2+3)(2+1)}{(2+3)} = \frac{2+3}{2+1} = 2+3$	$\frac{(2+3)(2+1)}{(2+3)} = \frac{2+3}{(2+3)} = 2+3$
$\frac{(2+3)(2+1)}{(2+3)(2+1)} = \frac{2+3}{2+1} = \frac{2+3}{2+1} + \frac{2}{2+1} + \frac{2}{2+1} + \frac{2}{2+1} + \frac{2}{2+1} = 0$ $\frac{(2+3)(2+1)}{(2+3)(2+1)} = \frac{2+3}{2+1} + \frac{2}{2+1} $	$\frac{(2+3)(2+1)}{(2+3)} = \frac{2+3}{(2+3)} + \frac{3}{(2+3)} + 3$
$\frac{(2+3)(2+3)}{(2+3)(2+3)} = 2+15$ $\frac{(2+3)(2+3)}{(2+3)(2+3)} = \frac{(2+3)(2+3)}{(2+3)(2+3)(2+3)} = \frac{(2+3)(2+3)}{(2+3)(2+3)(2+3)} = \frac{(2+3)(2+3)}{(2+3)(2+3)(2+3)(2+3)} = (2+3)(2+3)(2+3)(2+3)(2+3)(2+3)(2+3)(2+3)$	$\frac{(2+5)(2+1)}{(2+5)(2+1)} = \frac{2+5}{(2+5)(2+2)} = \frac{2+1}{(2+5)(2+1)} + \frac{3+1}{(2+5)(2+1)} = \frac{3+1}{(2+5)(2+1)} $
$\frac{(2+3)(2+1)}{(2+3)(2+1)} = \frac{1}{(2+1)} + $	$\begin{array}{cccccccccccccccccccccccccccccccccccc$
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	$\frac{(2+3)(2+3)}{(2+3)(2+4)} = 2+1$ $\frac{(2+3)(2+3)}{(2+3)(2+3)} = 2+1$ $\frac{(2+3)(2+3)}{(2+3)(2+3)} = 2+1$ $\frac{(2+3)(2+3)}{(2+3)(2+3)} = 2+1$ $\frac{(2+3)(2+3)}{(2+3)(2+3)(2+3)} = 2+1$ $\frac{(2+3)(2+3)}{(2+3)(2+3)(2+3)(2+3)} = 2+1$ $\frac{(2+3)(2+3)}{(2+3)(2+3)(2+3)(2+3)(2+3)} = 2+1$ $\frac{(2+3)(2+3)}{(2+3)(2+3)(2+3)(2+3)(2+3)(2+3)(2+3)(2+3)$
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	$\begin{array}{cccccccccccccccccccccccccccccccccccc$
$\frac{(2+3)(2+3)}{(2+3)(2+3)} = 2+3$ $\frac{(2+3)(2+3)}{(2+3)(2+3)} = 2+3$ $\frac{(2+3)(2+3)}{(2+3)(2+3)} = 2+3$ $\frac{(2+3)(2+3)}{(2+3)(2+3)} = 2+3$ $\frac{(2+3)(2+3)}{(2+3)(2+3)(2+3)(2+3)(2+3)(2+3)(2+3)(2+3)$	$\frac{(2+3)(2+4)}{(2+3)(2+4)} = 2+3$ $\frac{(2+3)(2+4)}{(2+3)(2+4)} = 2+3$ $\frac{(2+3)(2+4)}{(2+3)(2+4)(2+4)} = 2+3$ $\frac{(2+3)(2+4)}{(2+3)(2+4)(2+4)(2+4)} = 2+3$ $\frac{(2+3)(2+4)}{(2+3)(2+4)(2+4)(2+4)(2+4)} = 2+3$ $\frac{(2+3)(2+4)}{(2+3)(2+4)(2+4)(2+4)(2+4)} = 2+3$ $\frac{(2+3)(2+4)}{(2+3)(2+4)(2+4)(2+4)(2+4)} = 2+3$ $\frac{(2+3)(2+4)(2+4)(2+4)(2+4)(2+4)(2+4)}{(2+3)(2+4)(2+4)(2+4)(2+4)} = 2+3$ $(2+3)(2+4)(2+4)(2+4)(2+4)(2+4)(2+4)(2+4)(2+4$
$\frac{(2+3)(2+3)}{(2+3)(2+3)} = 2+3 + 3 + 3 + 3 + 3 + 3 + 3 + 3 + 3 + 3$	$\begin{array}{cccccccccccccccccccccccccccccccccccc$
$\frac{(2+3)(2+3)}{(2+3)(2+3)} = \frac{2+3}{2+1} + \frac{3}{2} + $	$\frac{(2+3)(2+4)}{(2+3)(2+4)} = \frac{2+3}{(2+3)} = $
$\frac{(2+3)(2+3)}{(2+3)(2+3)} = \frac{2+3}{2+4} + \frac{3}{2} + $	$\frac{(2+3)(2+3)}{(2+3)+3$
$\frac{(2+3)(2+3)}{(2+3)(2+3)} = \frac{2+3}{2+1} + \frac{3}{2} + $	$\begin{array}{cccccccccccccccccccccccccccccccccccc$
(2+3)(2+3) = 2+4 $(2+3)(2+3) = 2+4$ $(2+3)(2+3)$	$\begin{array}{cccccccccccccccccccccccccccccccccccc$
$\frac{(2+3)(2+3)}{(2+3)(2+3)} = \frac{2+3}{2} + \frac{3}{2} + \frac{3}$	$\begin{array}{cccccccccccccccccccccccccccccccccccc$
$\frac{(2+5)(2+1)}{(2+5)(2+1)} = \frac{2+5}{2+1} = $	$\begin{array}{cccccccccccccccccccccccccccccccccccc$
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	$\begin{array}{cccccccccccccccccccccccccccccccccccc$
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	$\begin{array}{cccccccccccccccccccccccccccccccccccc$
$\frac{(2+5)(2+6)}{(2+5)} = \frac{2+4}{2} = 2+4$	$\begin{array}{cccccccccccccccccccccccccccccccccccc$
$\frac{(2+3)(2+4)}{(2+3)(2+4)} = \frac{2+4}{(2+3)} + \frac{3}{(2+3)} + \frac{3}{(2+3)} + \frac{3}{(2+3)} + \frac{3}{(2+3)} = 0$ $\frac{(2+3)(2+4)}{(2+3)} + \frac{3}{(2+3)} + \frac{3}{(2+3)} + \frac{3}{(2+3)} + \frac{3}{(2+3)} + \frac{3}{(2+3)} = 0$ $\frac{(2+3)(2+4)}{(2+3)} + \frac{3}{(2+3)} + \frac{3}{(2+3)} + \frac{3}{(2+3)} + \frac{3}{(2+3)} + \frac{3}{(2+3)} = 0$ $\frac{(2+3)(2+4)}{(2+3)} + \frac{3}{(2+3)} + \frac$	$\begin{array}{cccccccccccccccccccccccccccccccccccc$
$\frac{(2+5)(2+1)}{(2+5)(2+1)} = \frac{2+1}{2+1} + \frac{3}{2} + $	$\begin{array}{cccccccccccccccccccccccccccccccccccc$
$\frac{(2+3)(2+1)}{(2+3)(2+1)} = \frac{2+1}{(2+1)} + \frac{1}{2}(2+1) + \frac{1}{2}(2+1) + \frac{1}{2}(2+1) + \frac{1}{2}(2+1) = 0$ $\frac{(2+3)(2+1)}{(2+1)} + \frac{1}{2}(2+1$	(2+3)(2+4)  2+5  2+1 $(3+3)(2+4) + (3+4)$
$\frac{(2+3)(2+3)}{(2+3)(2+3)} = \frac{2+3}{2+1} + \frac{3}{2} + $	$\begin{array}{cccccccccccccccccccccccccccccccccccc$
$\frac{(2+3)(2+3)}{(2+3)(2+3)} = \frac{24}{2} + \frac{3}{2} + \frac{3}{$	$\frac{(a+3)(2n)}{(a+3)+b(2n+3)=2n-3} = 0$ $\frac{(a+3)(2n)}{(a+3)+b(2n+3)=2n-3} = 0$ $\frac{(a+3)(2n)}{(a+3)+b(2n+3)+b(2n+3)=2n-3} = 0$ $\frac{(a+3)(2n)}{(a+3)+b(2n+3)+b(2n+3)=2n-3} = 0$ $\frac{(a+3)(2n)}{(a+3)+b(2n+3)+b(2n+3)=2n-3} = 0$ $\frac{(a+3)(2n)}{(a+3)+b(2n+3)+b(2n+3)+b(2n+3)=2n-3} = 0$ $\frac{(a+3)(2n)}{(a+3)+b(2n+3)+b(2n+3)+b(2n+3)+b(2n+3)=2n-3} = 0$ $\frac{(a+3)(2n)}{(a+3)+b(2n+3)+$
$\frac{(2+3)(2+3)}{(2+3)(2+3)} = \frac{2+3}{2+3} = \frac{2+3}{2+3} + \frac{3}{2} $	$\begin{array}{cccccccccccccccccccccccccccccccccccc$
$\frac{(2+3)(2+3)}{(2+3)(2+3)} = \frac{2+3}{2+3} = \frac{2+3}{2+3} = \frac{2+3}{2+3} = 0$ $\frac{(2+3)(2+3)}{(2+3)(2+3)} = \frac{2+3}{2+3} = \frac{2+3}{2+3} = 0$ $\frac{(2+3)(2+3)}{(2+3)(2+3)(2+3)(2+3)(2+3)(2+3)(2+3)(2+3)$	$\begin{array}{cccccccccccccccccccccccccccccccccccc$
$(2+3)(2+3)  \text{ as }  \text$	$\begin{array}{cccccccccccccccccccccccccccccccccccc$
$\frac{(2+3)(2+3)}{(2+3)(2+3)} = \frac{2+3}{2+1} = \frac{2+3}{2+1} + \frac{3}{2+1} + \frac{3}{2+1$	$\begin{array}{cccccccccccccccccccccccccccccccccccc$
$\frac{(2+3)(2+3)}{(2+3)(2+3)} = \frac{2+3}{2+3} = \frac{2+3}{2+3} = \frac{2+3}{2+3} = 0$ $\frac{(2+3)(2+3)}{(2+3)(2+3)(2+3)(2+3)(2+3)(2+3)(2+3)(2+3)$	$\begin{array}{cccccccccccccccccccccccccccccccccccc$
$\frac{(2+3)(3+3)}{(2+3)(3+3)} = \frac{2+3}{2+1} + \frac{3}{2} + $	$\begin{array}{cccccccccccccccccccccccccccccccccccc$
(2+3)(2+3) = 2+3 = 2+1 $(2+3)(2+3) = 2+3 = 2+3 = 2+1$ $(2+3)(2+3) = 2+3 = 2+3 = 2+1$ $(2+3)(2+3) = 2+3 = 2+3 = 2+1$ $(2+3)(2+3) = 2+3 = 2+3 = 2+1$ $(2+3)(2+3) = 2+3 = 2+3 = 2+1$ $(2+3)(2+3) = 2+3 = 2+3 = 2+1$ $(2+3)(2+3) = 2+3 = 2+3 = 2+1$ $(2+3)(2+3) = 2+3 = 2+3 = 2+1$ $(2+3)(2+3) = 2+3 = 2+3 = 2+1$ $(2+3)(2+3) = 2+3 = 2+3 = 2+1$ $(2+3)(2+3) = 2+3 = 2+3 = 2+1$ $(2+3)(2+3) = 2+3 = 2+1$ $(2+3)(2+3) = 2+3 = 2+1$ $(2+3)(2+3) =$	$\begin{array}{cccccccccccccccccccccccccccccccccccc$
$\frac{(2+3)(2+3)}{(2+3)(2+3)} = \frac{2+3}{2+3}$ $\frac{(2+3)(2+3)}{(2+3)(2+3)} = \frac{2+3}{2+3}$ $\frac{(2+3)(2+3)}{(2+3)(2+3)} = \frac{2+3}{2+3}$ $\frac{(2+3)(2+3)}{(2+3)(2+3)(2+3)} = \frac{2+3}{2+3}$ $\frac{(2+3)(2+3)}{(2+3)(2+3)(2+3)(2+3)} = \frac{2+3}{2+3}$ $\frac{(2+3)(2+3)}{(2+3)(2+3)(2+3)(2+3)(2+3)} = \frac{2+3}{2+3}$ $(2+3)(2+3)(2+3)(2+3)(2+3)(2+3)(2+3)(2+3)$	$\begin{array}{cccccccccccccccccccccccccccccccccccc$
$\frac{(2+3)(2+3)}{(2+3)(2+3)} = \frac{2+3}{2+3} = \frac{2+3}{2+3} = \frac{2+3}{2+3} = \frac{2+3}{2+3} = 0$ $\frac{(2+3)(2+3)}{(2+3)} + \frac{(2+3)(2+3)}{(2+3)} = \frac{2+3}{2+3} + \frac{2+3}{2+3} = 0$ $\frac{(2+3)(2+3)}{(2+3)} + \frac{(2+3)(2+3)}{(2+3)} + \frac{(2+3)(2+3)}{(2+3)} = \frac{2+3}{2+3} + \frac{2+3}{2+3} = 0$ $\frac{(2+3)(2+3)}{(2+3)} + \frac{(2+3)(2+3)}{(2+3)} + \frac{(2+3)(2+3)}{(2+3)} + \frac{(2+3)(2+3)}{(2+3)} = 0$ $\frac{(2+3)(2+3)}{(2+3)} + \frac{(2+3)(2+3)}{(2+3)} + \frac{(2+3)(2+3)}{(2+3)} + \frac{(2+3)(2+3)}{(2+3)} = 0$ $\frac{(2+3)(2+3)}{(2+3)} + \frac{(2+3)(2+3)}{(2+3)} + \frac{(2+3)(2+3)}{(2+3)} + \frac{(2+3)(2+3)}{(2+3)} = 0$ $\frac{(2+3)(2+3)}{(2+3)} + \frac{(2+3)(2+3)}{(2+3)} + \frac{(2+3)(2+3)}{(2+3)} + \frac{(2+3)(2+3)}{(2+3)} = 0$ $\frac{(2+3)(2+3)}{(2+3)} + \frac{(2+3)(2+3)}{(2+3)} + \frac{(2+3)(2+3)}{(2+3)} + \frac{(2+3)(2+3)}{(2+3)} = 0$ $\frac{(2+3)(2+3)}{(2+3)} + \frac{(2+3)(2+3)}{(2+3)} + \frac{(2+3)(2+3)}{(2+3)} + \frac{(2+3)(2+3)}{(2+3)} = 0$ $\frac{(2+3)(2+3)}{(2+3)} + \frac{(2+3)(2+3)}{(2+3)} + \frac{(2+3)(2+3)}{(2+3)} = 0$ $\frac{(2+3)(2+3)}{(2+3)} + \frac{(2+3)(2+3)}{(2+3)} + \frac{(2+3)(2+3)}{(2+3)} = 0$ $\frac{(2+3)(2+3)}{(2+3)} + \frac{(2+3)(2+3)}{(2+3)} = 0$ $\frac{(2+3)(2+3)(2+3)}{(2+3)(2+3)} + \frac{(2+3)(2+3)(2+3)}{(2+3)(2+3)} = 0$ $\frac{(2+3)(2+3)(2+3)(2+3)(2+3)}{(2+3)(2+3)(2+3)} = 0$ $\frac{(2+3)(2+3)(2+3)(2+3)(2+3)(2+3)}{(2+3)(2+3)(2+3)} = 0$ $(2+3)(2+3)(2+3)(2+3)(2+3)(2+3)(2+3)(2+3)$	$\begin{array}{cccccccccccccccccccccccccccccccccccc$
$\frac{(2+3)(2+3)}{(2+3)(2+3)} = \frac{2+3}{2+1} = \frac{2+3}{2+1} + \frac{3}{2} $	(2.43)(24) 245 241 (1) (2,45) = 2-3 (1)
(2+13(24)) 245 241  A(24) + B(245) = 2-3  [dd 22-1] B = 1  [dd 22-1] B	(2.45)(2.45) 2.45 2.41  (1) (2.45)(2.45) 2.42  (2) (2.45) 2.42  (2) (2.45) 2.42  (2) (2.45) 2.42  (2) (2.45) 2.42  (2) (2.45) 2.42  (2) (2.45) 2.42  (2) (2.45) 2.42  (2) (2.45) 2.42  (2) (2.45) 2.42  (2) (2.45) 2.42  (3) (2.45) 2.42  (4) (2.45) 2.42  (5) (2.45) 2.42  (6) (2.45)
(2 + 1)(2+1)	(4.4)(34)  24.5  34.5  34.5  34.5  34.5  20 $(4.4)(34.5)  24.5  34.5  34.5  20$ $(4.4)(34.5)  24.5  34.5  24.5  34.5  20$ $(4.4)(34.5)  24.5  34.5  34.5  20$ $(4.4)(34.5)  34.5  34.5  34.5  20$ $(4.4)(34.5)  34.5  34.5  34.5  34.5  20$ $(4.4)(34.5)  34.5$
$\frac{(2+3)(2+3)}{(2+3)+3} = 2+3$ $(2+3)(2+3)(2+3)(2+3)(2+3)(2+3)(2+3)(2+3)$	(2+3)(3+3)  2+3  3+3, +3, +3, +3, +3, +3, +3, = 0 $(2+3)(3+3)  2+3  3+3, = 0$ $(2+3)(3+3)  2+3  3+3, = 0$ $(2+3)(3+3)  3+3  2+3, = 0$ $(2+3)(3+3)  3+3  2+3, = 0$ $(2+3)(3+3)  3+3  2+3, = 0$ $(2+3)(3+3)  3+3  2+3, = 0$ $(2+3)(3+3)  3+3  2+3, = 0$ $(2+3)(3+3)  3+3  2+3, = 0$ $(2+3)(3+3)  3+3  2+3, = 0$ $(2+3)(3+3)  3+3  2+3, = 0$ $(2+3)(3+3)  3+3  3+3  3+3, = 0$ $(2+3)(3+3)  3+3  3+3, = 0$ $(2+3)(3+3)  3+3  3+3, = 0$ $(2+3)(3+3)  3+3  3+3, = 0$ $(2+3)(3+3)  3+3  3+3, = 0$ $(2+3)(3+3)  3+3  3+3, = 0$ $(2+3)(3+3)  3+3  3+3, = 0$ $(2+3)(3+3)  3+3  3+3, = 0$ $(2+3)(3+3)  3+3  3+3, = 0$ $(2+3)(3+3)  3+3  3+3, = 0$ $(2+3)(3+3)  3+3  3+3, = 0$ $(2+3)(3+3)  3+3  3+3, = 0$ $(2+3)(3+3)  3+3  3+3, = 0$ $(2+3)(3+3)  3+3  3+3, = 0$ $(2+3)(3+3)  3+3  3+3, = 0$ $(2+3)(3+3)  3+3  3+3, = 0$ $(2+3)(3+3)  3+3  3+3, = 0$ $(2+3)(3+3)  3+3  3+3, = 0$ $(2+3)(3+3)  3+3  3+3, = 0$ $(2+3)(3+3)  3+3$
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