# I am the very model of a modern major general

#### Gilbert and Sullivan

### 1 equations

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\begin{array}{l} 3*x=y\\ \int\limits_{a^2} f(x)\,dx\\ a^2\\ a^{3*n/2+1}\\ \dots\\ \text{let }v\text{ be the velocity of an unlaiden swallow}\\ \dots\\ \text{the }n^{\text{th}}\text{ term of this expansion is zero}\\ sum0^l\\ \sqrt{x}\\ \frac{n}{d}\\ \frac{n}{d}\\ \end{array}
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#### 2 list

list1:

- 1. one: y = x
- 2. two:  $y = x^2$
- 3. three:  $y = x^3$
- 4. four:  $y = x^4$

## 3 align

$$\sin(x + \frac{\pi}{2}) = \sin x \cos \frac{\pi}{2} + \cos x \sin \frac{\pi}{2} \tag{1}$$

$$=\cos x$$
 (2)

#### 4 align list

list2:

one: y = x  $two: y = x^2$   $three: y = x^3$   $four: y = x^4$ 

#### 5 I am the very model of a modern Major-General

. . . . .

I am the very model of a modern Major-General, I've information vegetable, animal, and mineral, I know the kings of England, and I quote the fights historical From Marathon to Waterloo, in order categorical; I'm very well acquainted, too, with matters mathematical, I understand equations, both the simple and quadratical, About binomial theorem I'm teeming with a lot o' news, With many cheerful facts about the square of the hypotenuse. I'm very good at integral and differential calculus; I know the scientific names of beings animalculous: In short, in matters vegetable, animal, and mineral, I am the very model of a modern Major-General. I know our mythic history, King Arthur's and Sir Caradoc's; I answer hard acrostics, I've a pretty taste for paradox, I quote in elegiacs all the crimes of Heliogabalus, In conics I can floor peculiarities parabolous; I can tell undoubted Raphaels from Gerard Dows and Zoffanies, I know the croaking chorus from The Frogs of Aristophanes! Then I can hum a fugue of which I've heard the music's din afore, And whistle all the airs from that infernal nonsense Pinafore. Then I can write a washing bill in Babylonic cuneiform, And tell you ev'ry detail of Caractacus's uniform: In short, in matters vegetable, animal, and mineral, I am the very model of a modern Major-General. In fact, when I know what is meant by "mamelon" and "ravelin", When I can tell at sight a Mauser rifle from a Javelin, When such affairs as sorties and surprises I'm more wary at, And when I know precisely what is meant by "commissariat", When I have learnt what progress has been made in modern gunnery, When I know more of tactics than a novice in a nunnery In short, when I've a smattering of elemental strategy

You'll say a better Major-General has never sat a gee. For my military knowledge, though I'm plucky and adventury, Has only been brought down to the beginning of the century; But still, in matters vegetable, animal, and mineral, I am the very model of a modern Major-General.